

GROUND BEETLES (CARABIDAE) OF FENNOSCANDIA

A Zoogeographic Study

**Part II
MAPS**

CARL H. LINDROTH

This work is published in three parts:
Part I—Specific Zoogeographic Facts;
Part II—Maps; Part III—General Facts.

This part comprises exclusively the distribution maps, which are arranged by species in alphabetical order. The maps cover Fennoscandia and its adjacent regions.

There are 361 species of carabids so far known to occur in the Fennoscandian region. Only 25 of these, which occur sporadically or in quite isolated localities, have been omitted.

Ground Beetles (Carabidae)
of Fennoscandia

Ground Beetles (Carabidae) of Fennoscandia

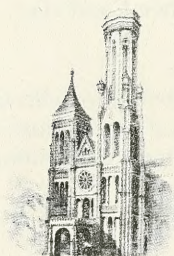
A Zoogeographic Study

PART II
MAPS

CARL H. LINDROTH

Scientific Editor
JOACHIM ADIS

Scientific Coordinator
TERRY L. ERWIN



Smithsonian Institution Libraries
and
The National Science Foundation
Washington, D.C.
1988

TT 79-52039/02

Die Fennoskandischen Carabidae: Eine Tiergeographische Studie
II. Die Karten

Elanders Boktryckeri Aktiebolag
Göteborg, 1945

©1988 Amerind Publishing Co. Pvt. Ltd., New Delhi

Translated from the German

Translator: Dr. J.S. Bhatti

General Editor: Dr. V.S. Kothekar

Library of Congress Cataloging-in-Publication Data

Lindroth, Carl Hildebrand, 1905-

Ground beetles (Carabidae) of Fennoscandia.

Translation of: Die fennoskandischen Carabidae.

Bibliography: p.

Supt. of Docs. no.: SI 1.2.:B39

1. Carabidae—Geographical distribution—Collected works.
2. Insects—Scandinavia—Geographical distribution—Collected works.
3. Insects—Finland—Geographical distribution—Collected works. I. Title.

QL596.C2L5313 1987

595.76'2

87-600154

Translated and published for the Smithsonian Institution Libraries,
pursuant to an agreement with the National Science Foundation,
Washington, D.C., by Amerind Publishing Co. Pvt. Ltd.,
66 Janpath, New Delhi 110 001

Printed at Pauls Press, New Delhi, India

Dedicated to
Karl Holdhaus
Vienna



CONTENTS

INTRODUCTION TO PART II	ix
MAPS	3

INTRODUCTION TO PART II

This part comprises exclusively the distribution maps, which are arranged by species in alphabetical order.

There are 361 species of carabids so far known to occur in the Fennoscandian region. Only 25 of these, which occur sporadically or in quite isolated localities, have been omitted. These species are listed below:

Acupalpus dubius Schilsky
Agonum aldanicum Popp.
A. impressum Panz.
Amara crenata Dej.
A. peregrina Mor.
Bembidion chaudiroides Chd.
B. crenulatum ponojense J. Sahlb.
B. dauricum Motsch.
B. hirmocoelum Chd.
B. scandicum Lindroth
Bradycellus ponderosus Lindroth
Calosoma denticolle Gebl.
C. investigator Ill.
Carabus auratus L.
C. monilis Fbr.
Clivina collaris Hbst.
Dromius quadraticollis Mor.
Dyschirius neresheimeri Wgn.
D. rufipes Dej.
Elaphrus angusticollis F. Sahlb.
Harpalus nigritarsis C.R. Sahlb.
Notiophilus rufipes Curt.
Pogonus luridipennis Germ.
Pterostichus madidus Fbr.
Trichocellus mannerheimi C.R. Sahlb.

On the other hand, 2 subspecies or varieties are represented by separate maps (*Nebria gyllenhali balbii* Bon. and *Patrobus septentrionis australis* J. Sahlb.).

The 338 maps presented here have all been executed according to the simple point method. Only two symbols have been used: *solid* circles indicate exact localities, whereas *blank* circles indicate county (district) records. The latter symbol has been used particularly for the neighboring regions (Denmark, Baltic States, Leningrad area) in such cases where indication of detailed distribution would not be of any special interest; however within the Fennoscandian region blank circles were used only in those cases where more precise information on the locality could not be obtained, hence almost totally in the case of older records.

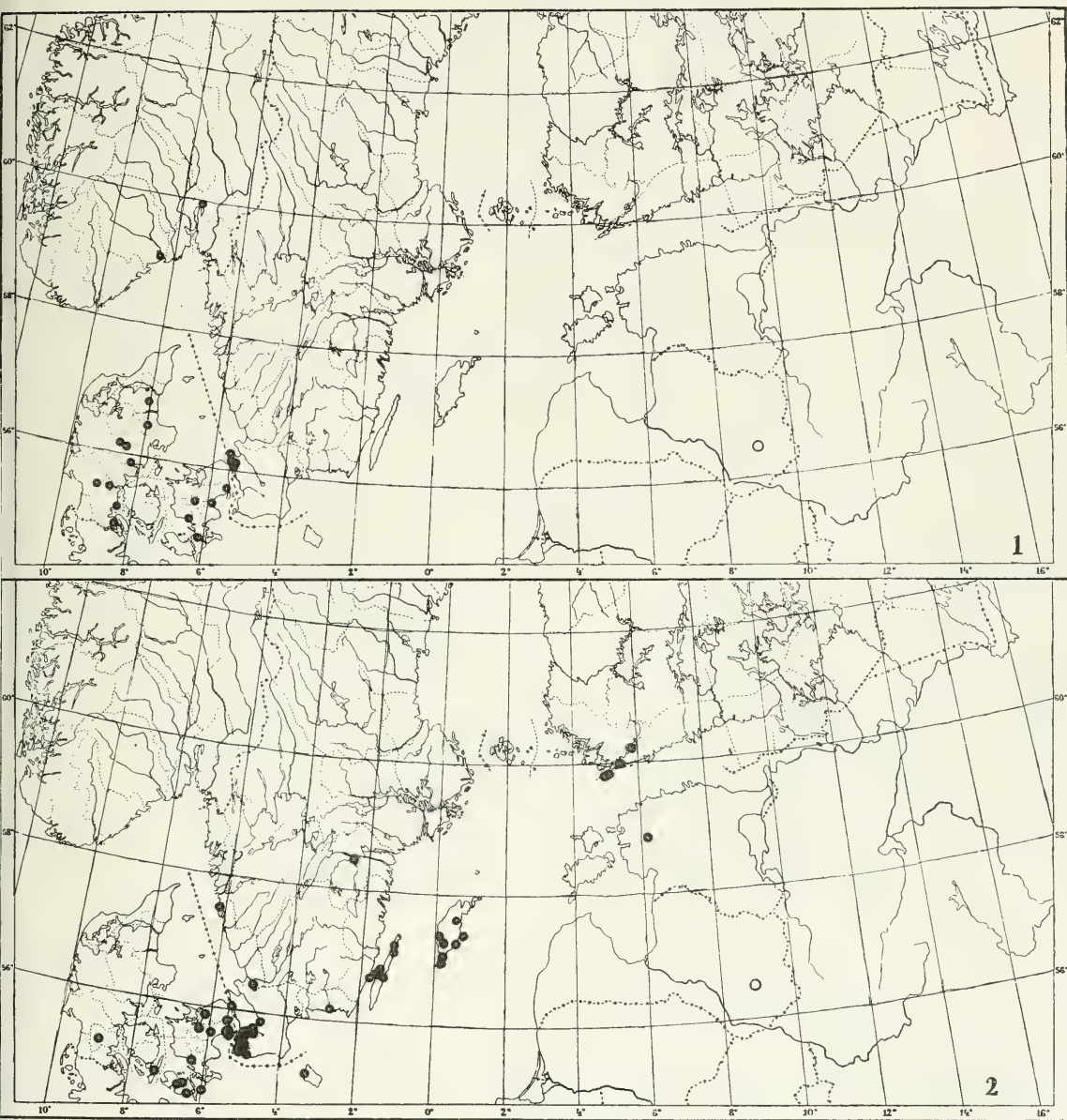
For some species it might well have been preferable to give a map where quantitative relations of distribution could also be expressed, in such a way that the size of the solid circles would vary in accordance with the number of specimens observed. For instance, *Misocdera arctica* would stand out unmistakably as a northern species only by means of such a representation. A clear picture would also have been obtained in many cases, by indicating the limits of the accepted range of distribution (following the example of Ekman 1922) by coarse lines.

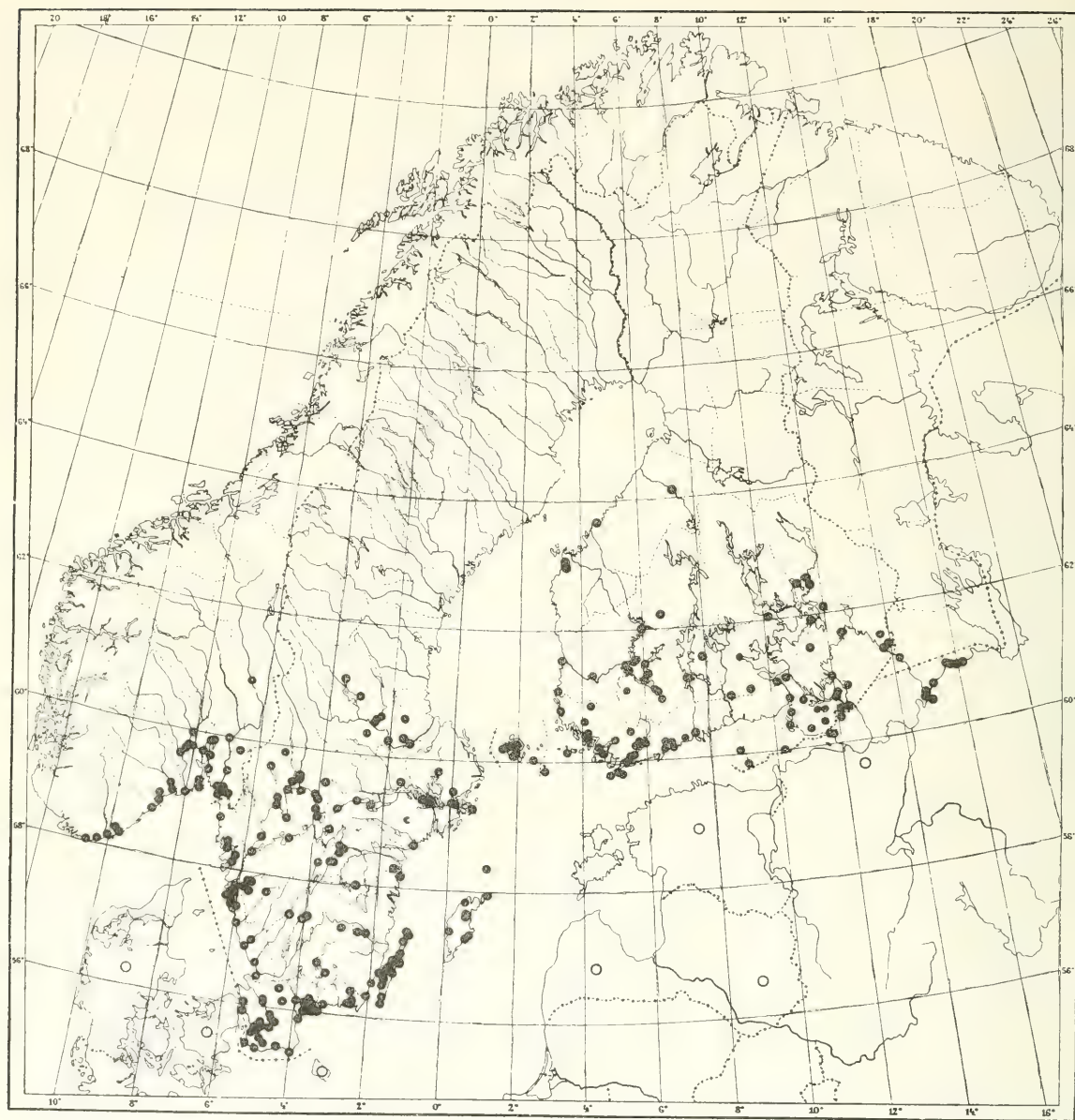
However, after careful consideration I have preferred here to present the maps in a completely unmodified form. This is because it appeared to me of utmost importance, in the preceding context, to keep the material presented here free from every subjective viewpoint. The maps would in some cases reappear in a revised, "interpretative" form, in Part III (General Part) of this work.

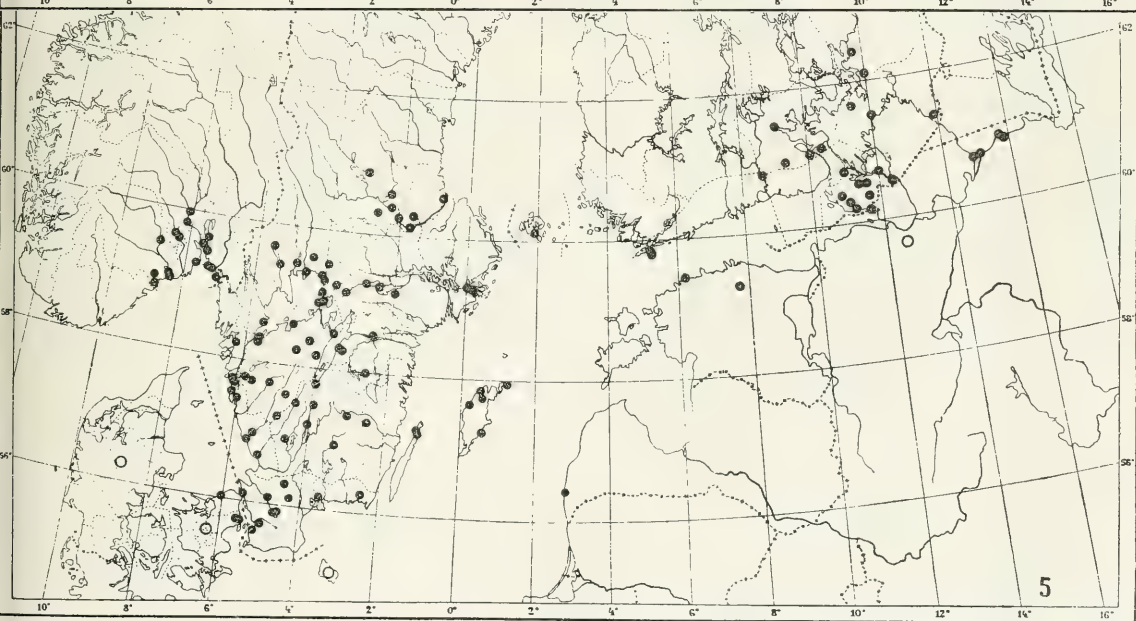
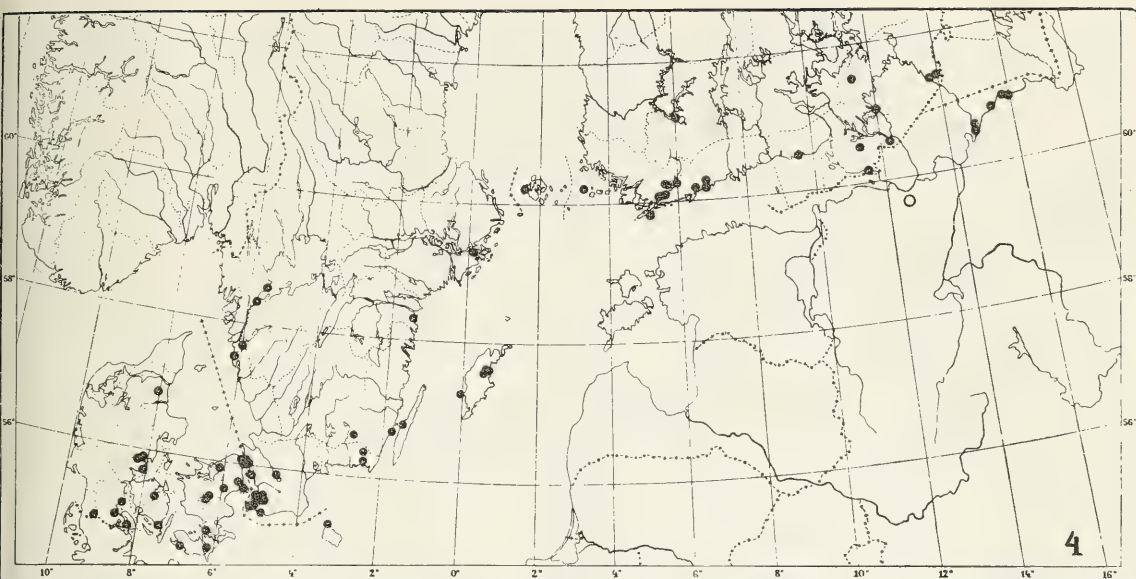
My wife helped in preparing the final draft of the maps.

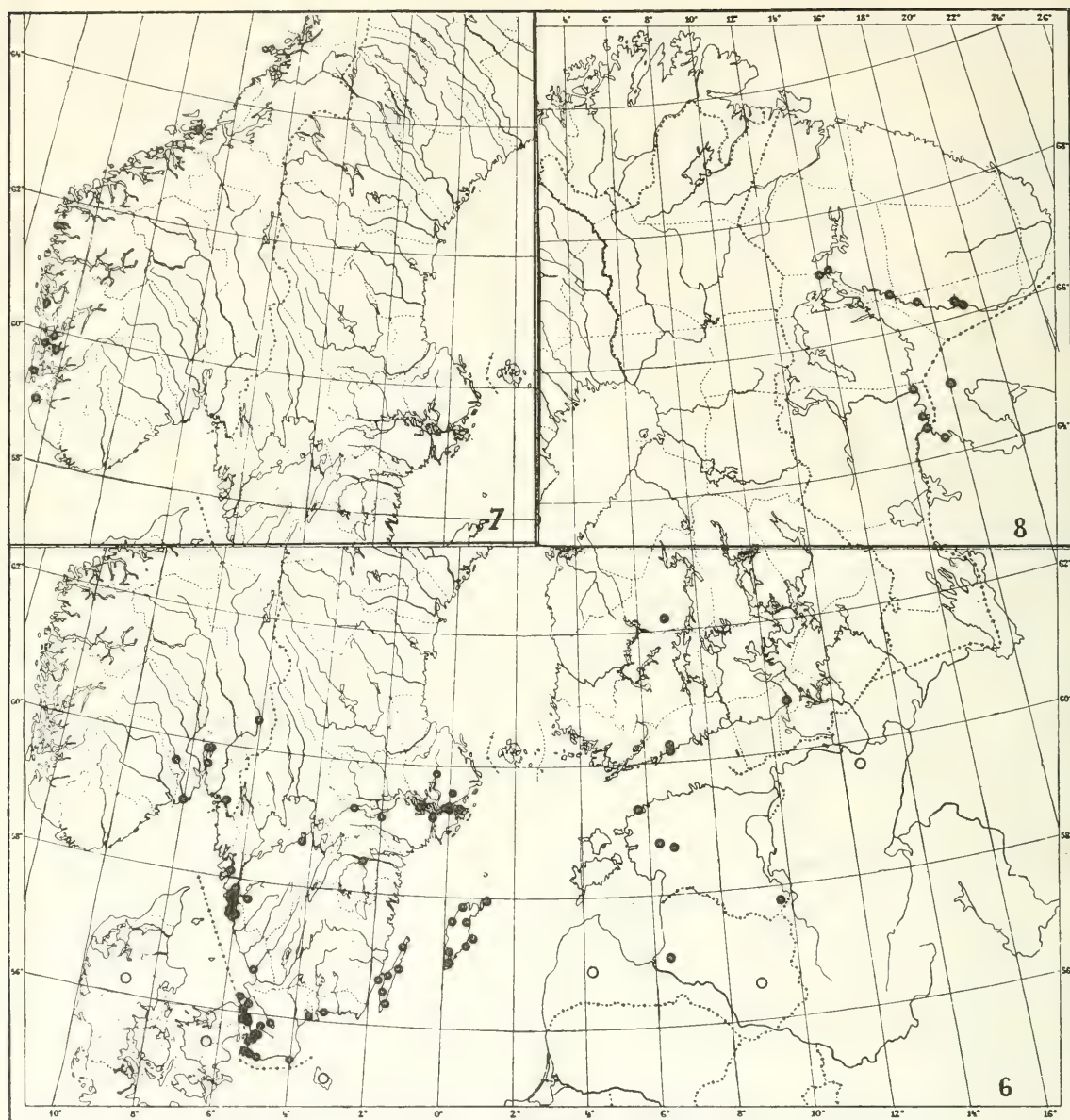
MAPS

N.B.: Pagination of original book printed in lower left corner of page.
This pagination is cited in Indexes of Parts I and III.

1. *Abax ater* Vill.2. *Acupalpus consputus* Dft.



4. *Acupalpus exiguus* Dej.5. *Acupalpus flavicollis* Sturm.



6. *Acupalpus meridianus* L.

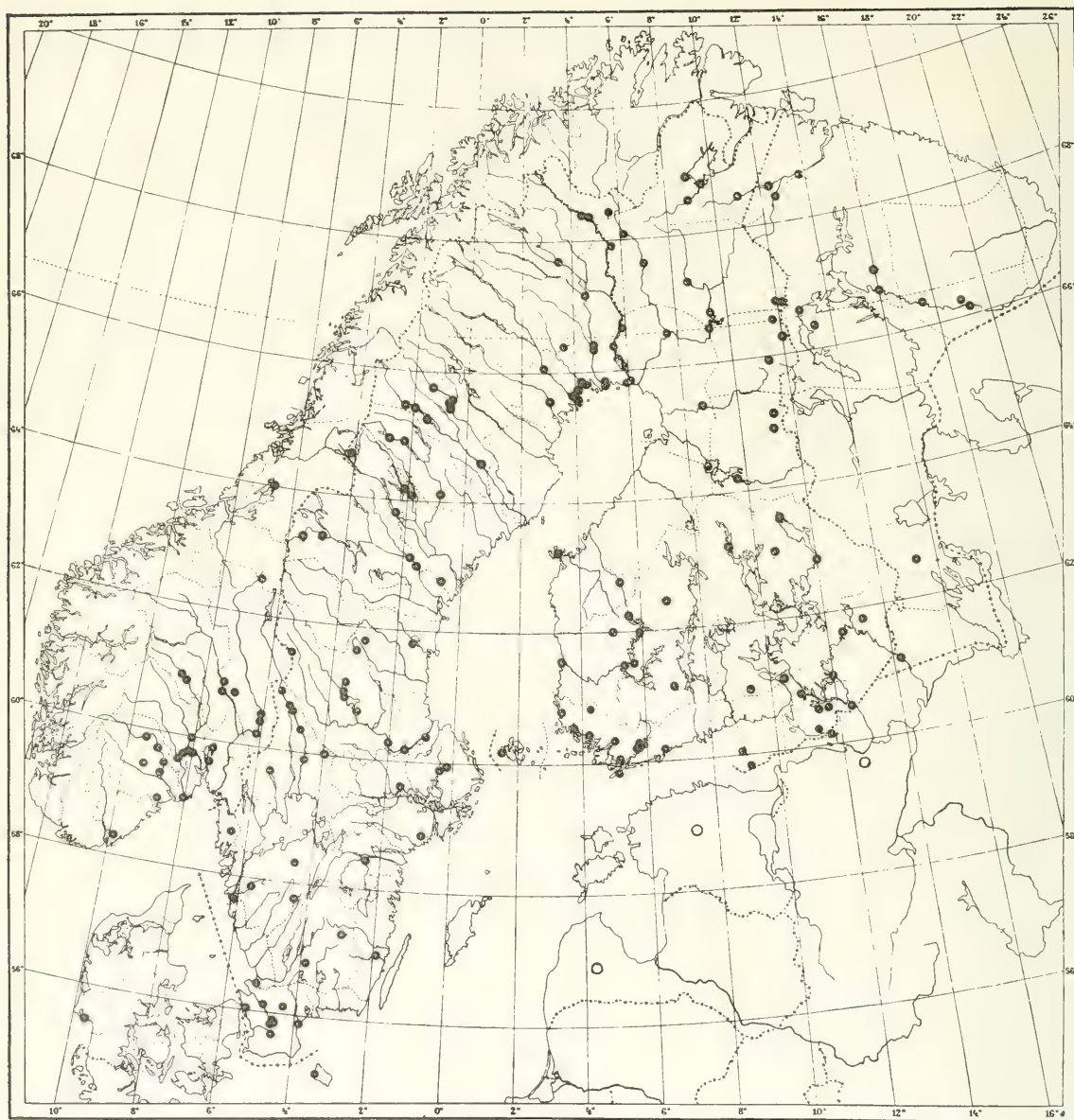
7. *Aëpus marinus* Ström.

8. *Agonum archangelicum* J. Sahlb.

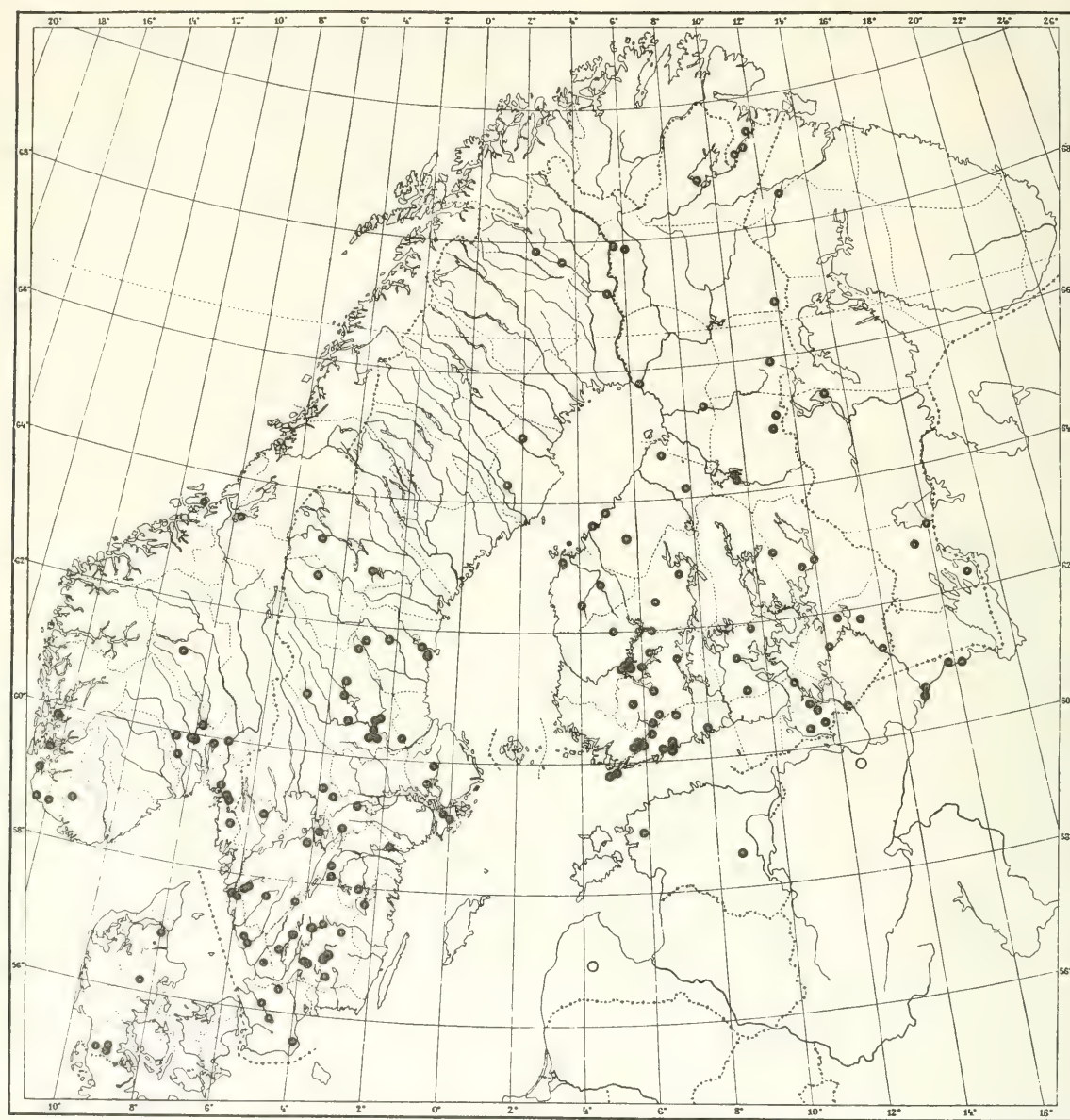




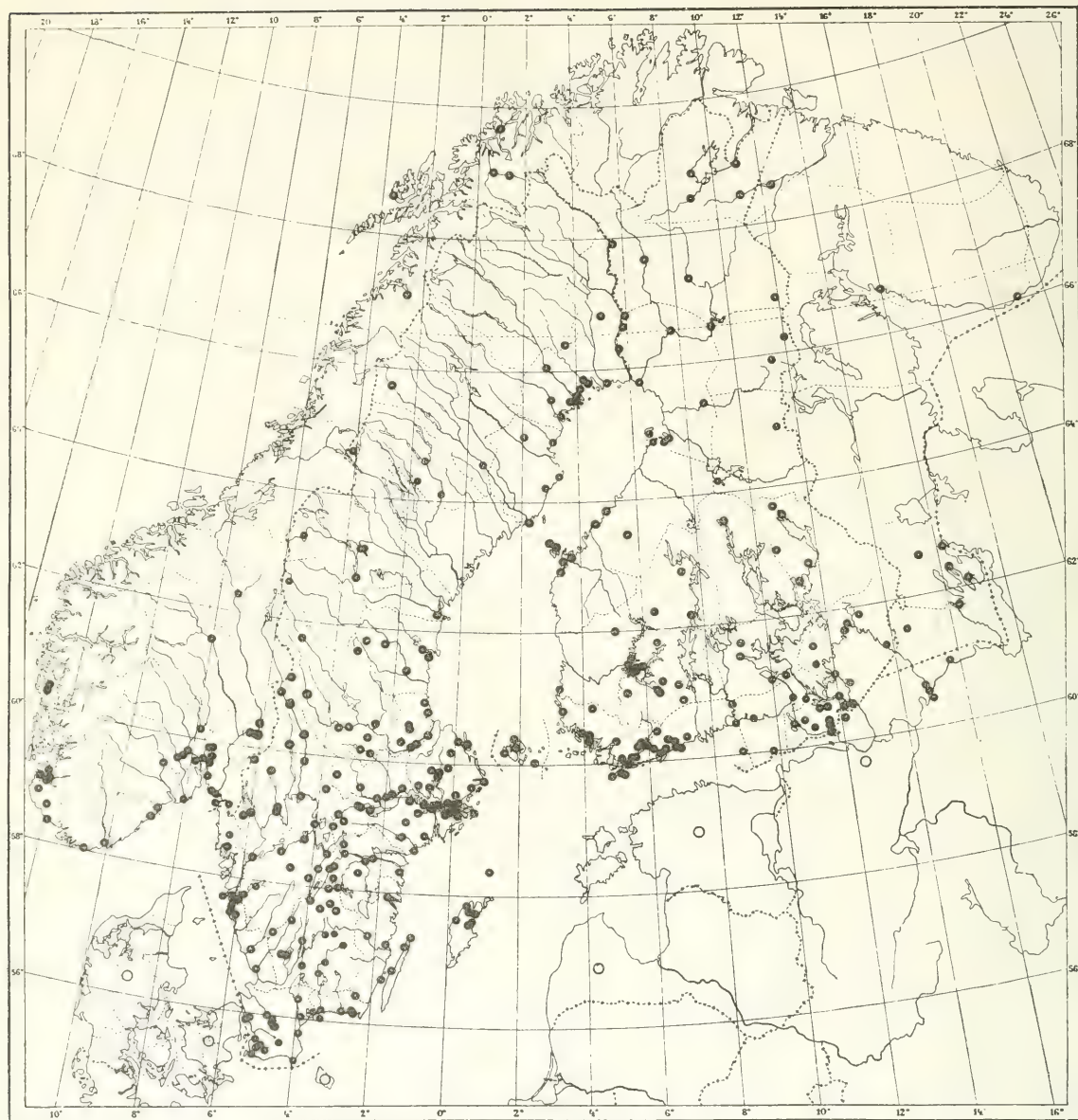


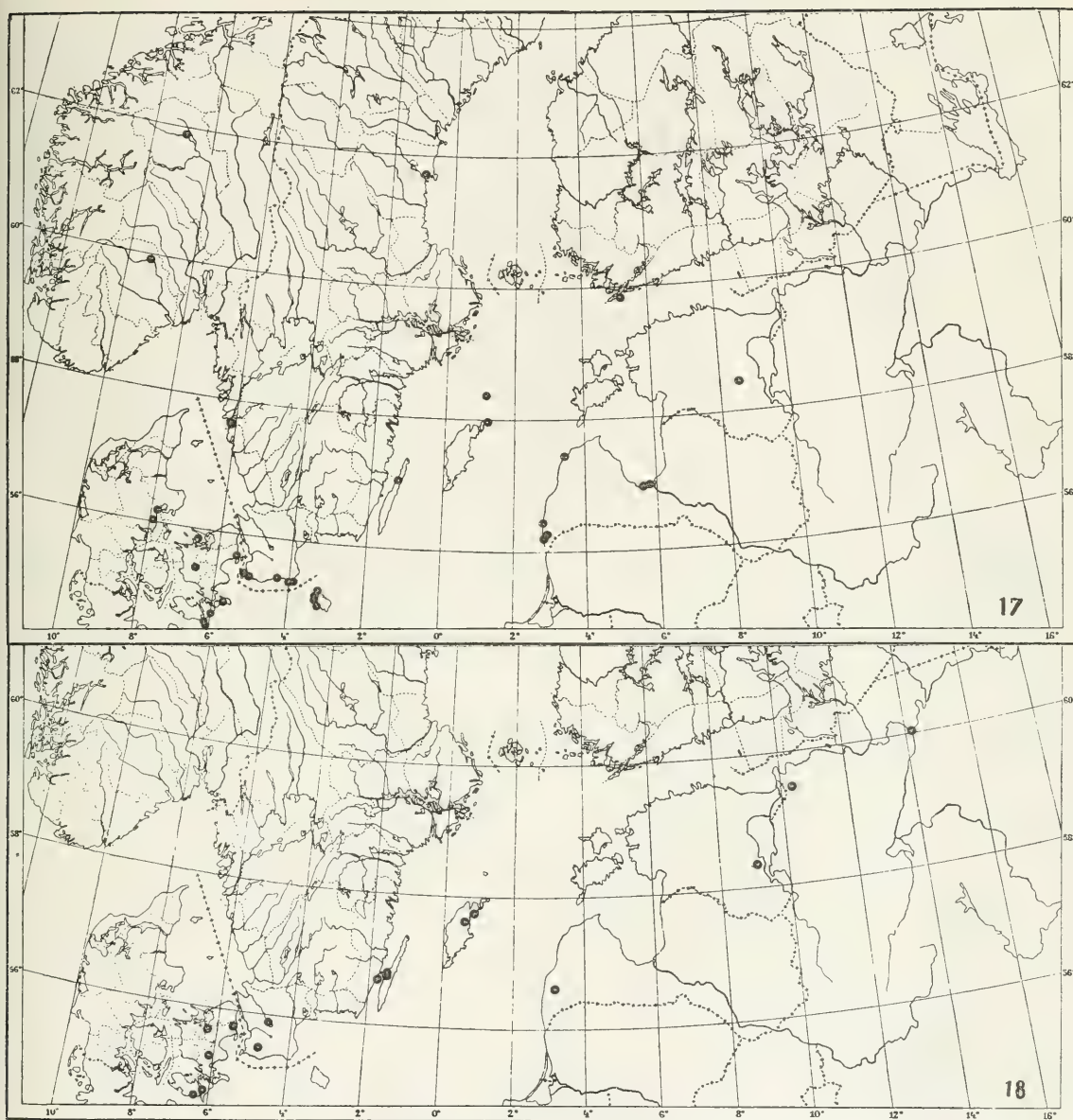








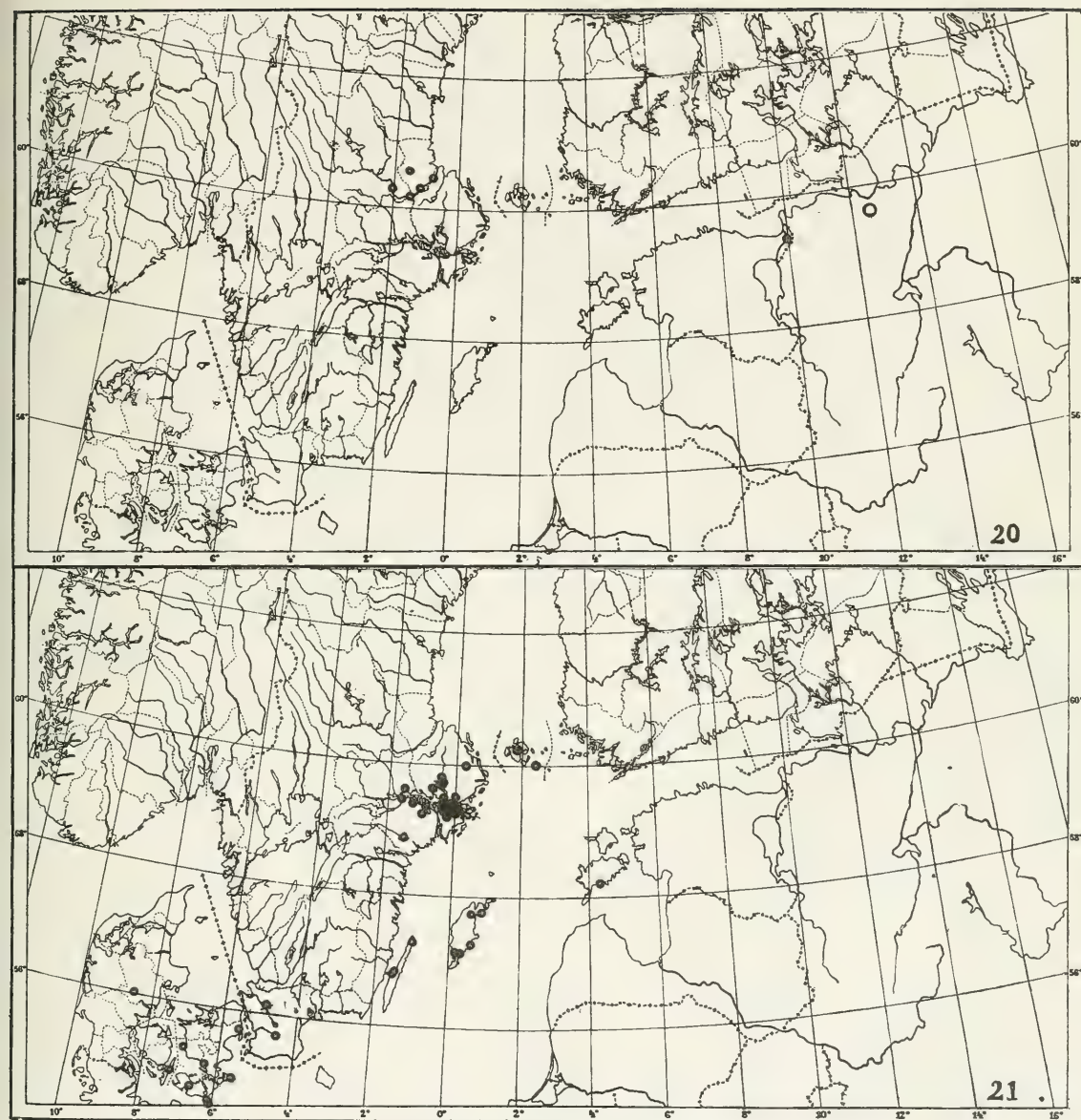




21

17. *Agonum gracilipes* Dft.18. *Agonum krynicki* Sperk.

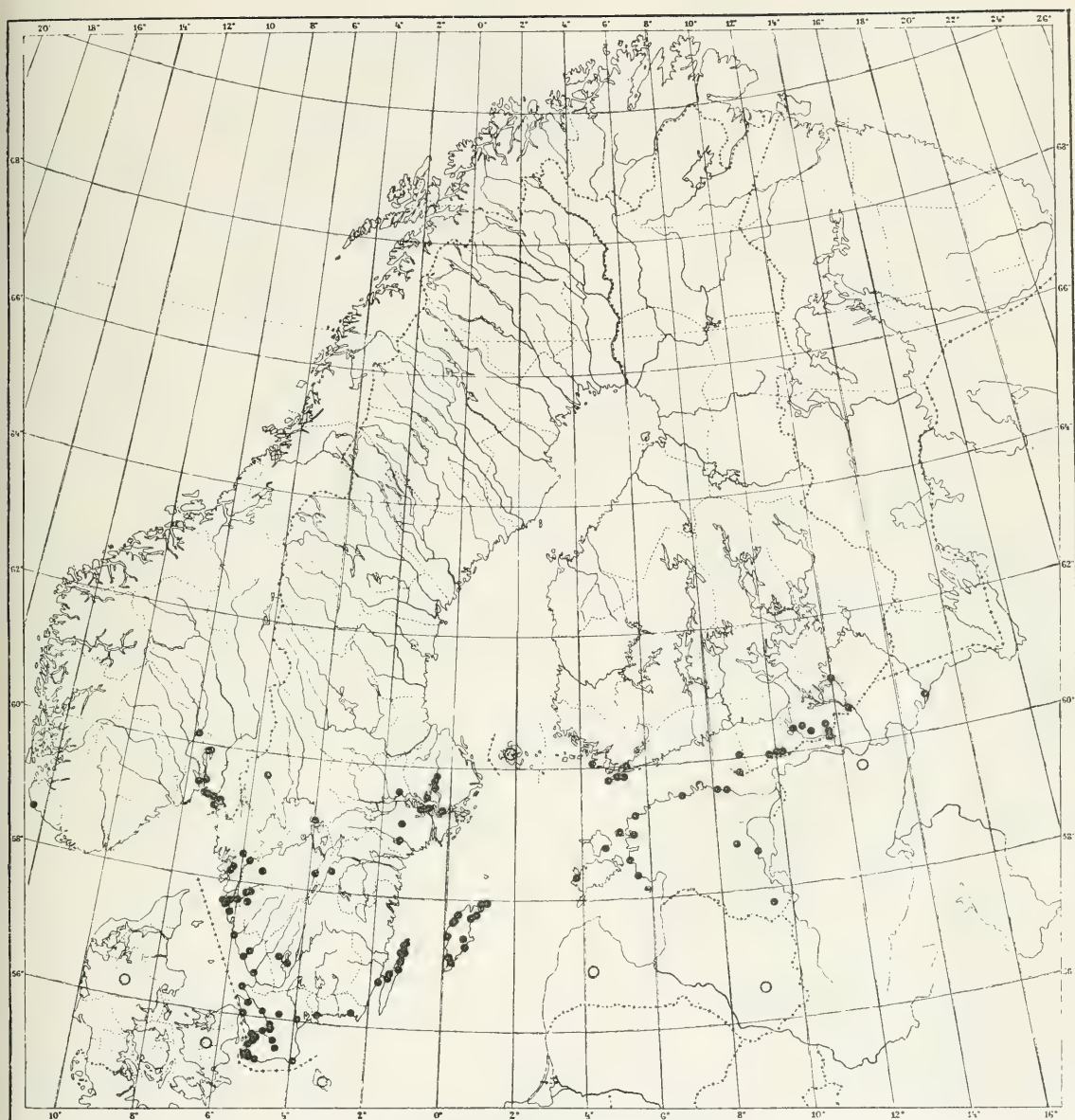


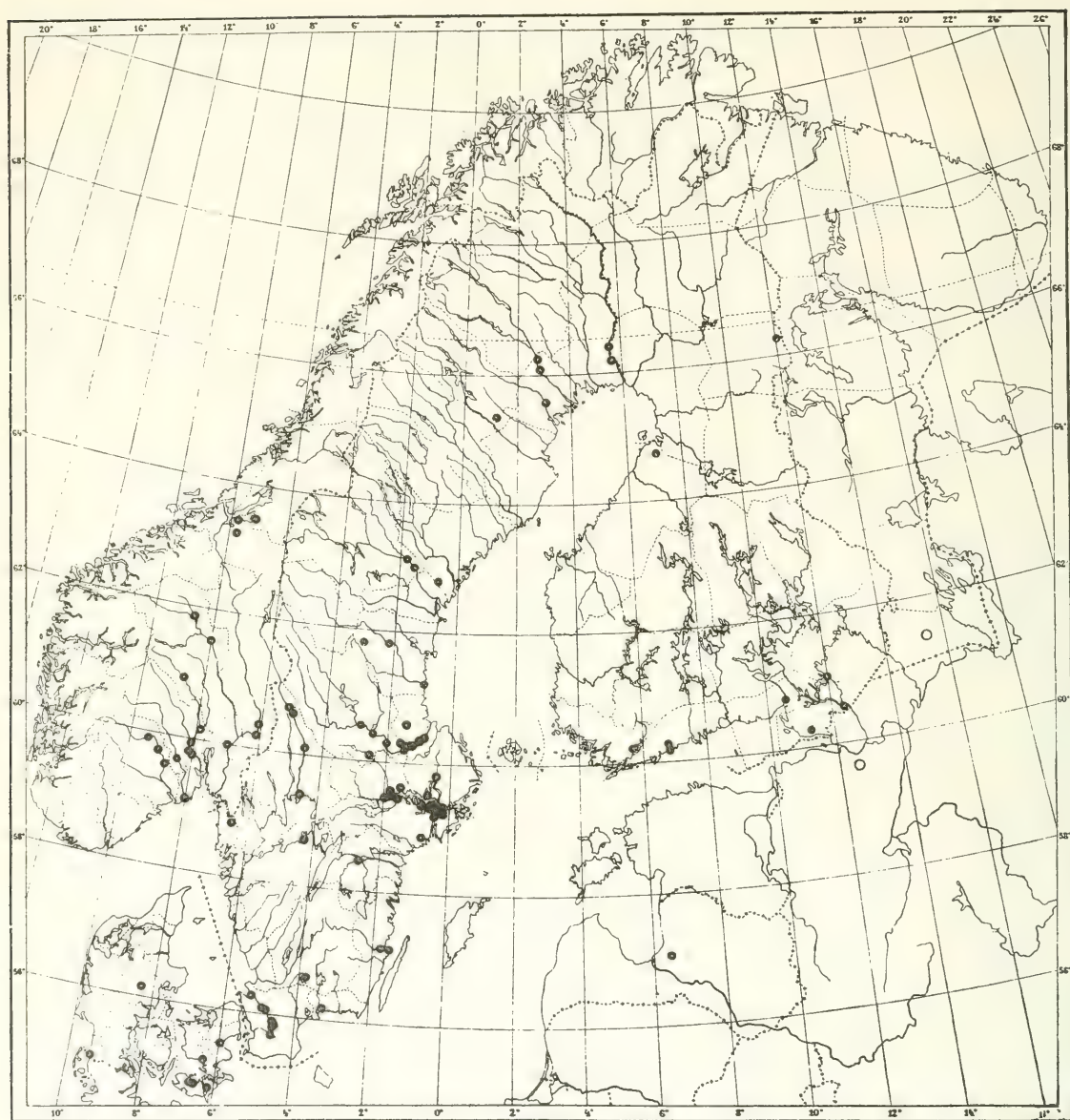


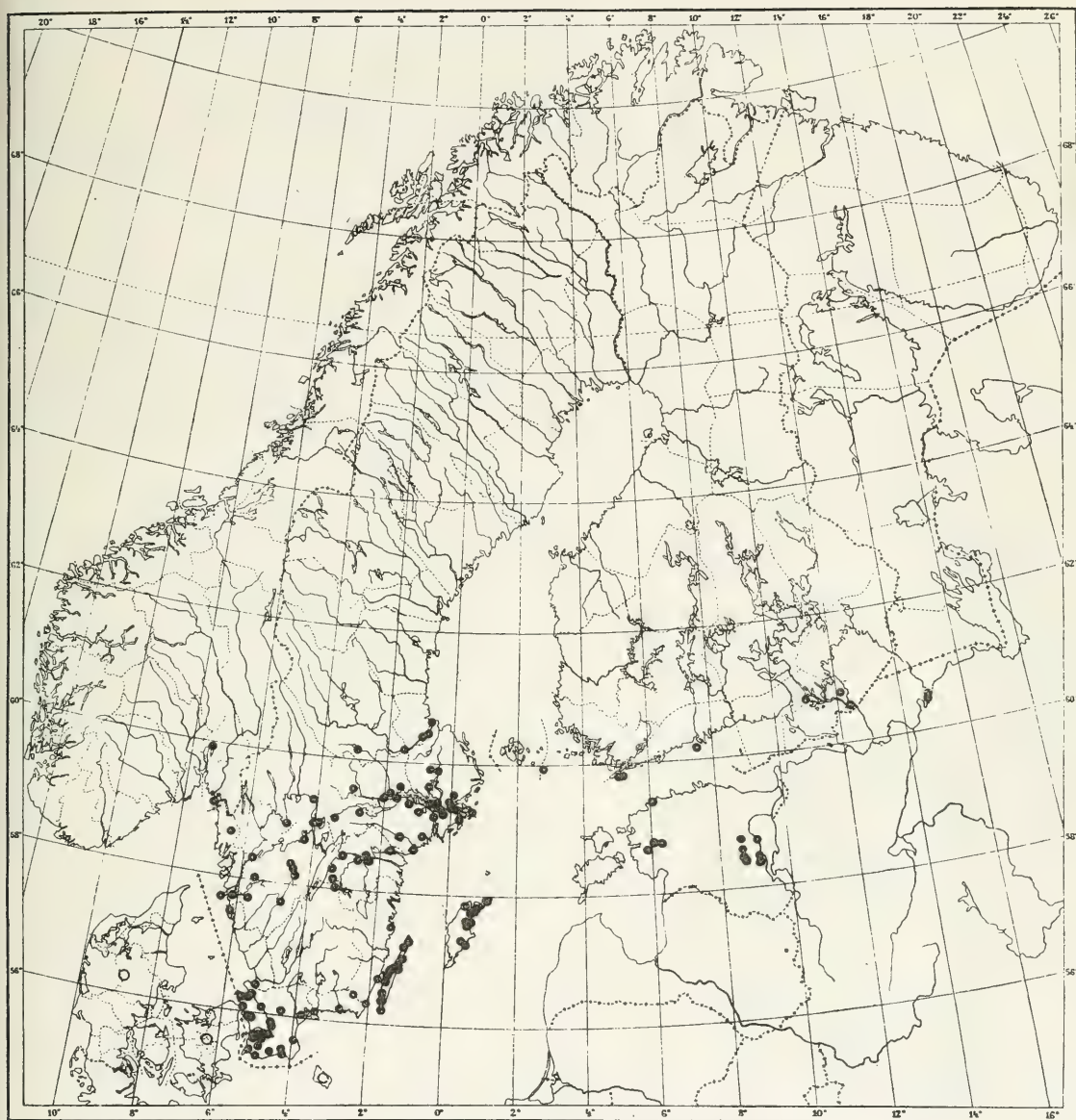
23

20. *Agonum longiventre* Mannh.21. *Agonum lugens* Dft.

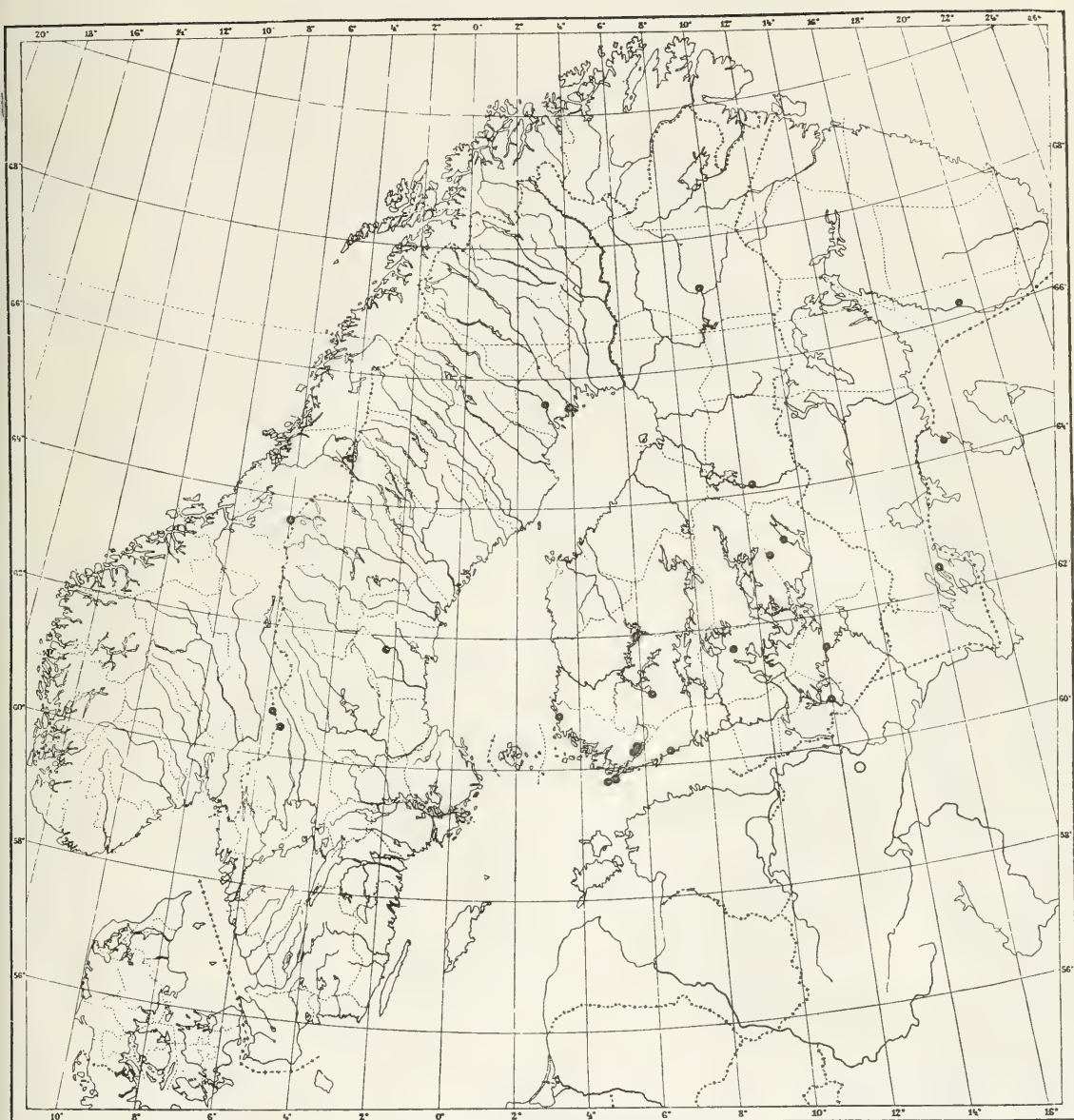


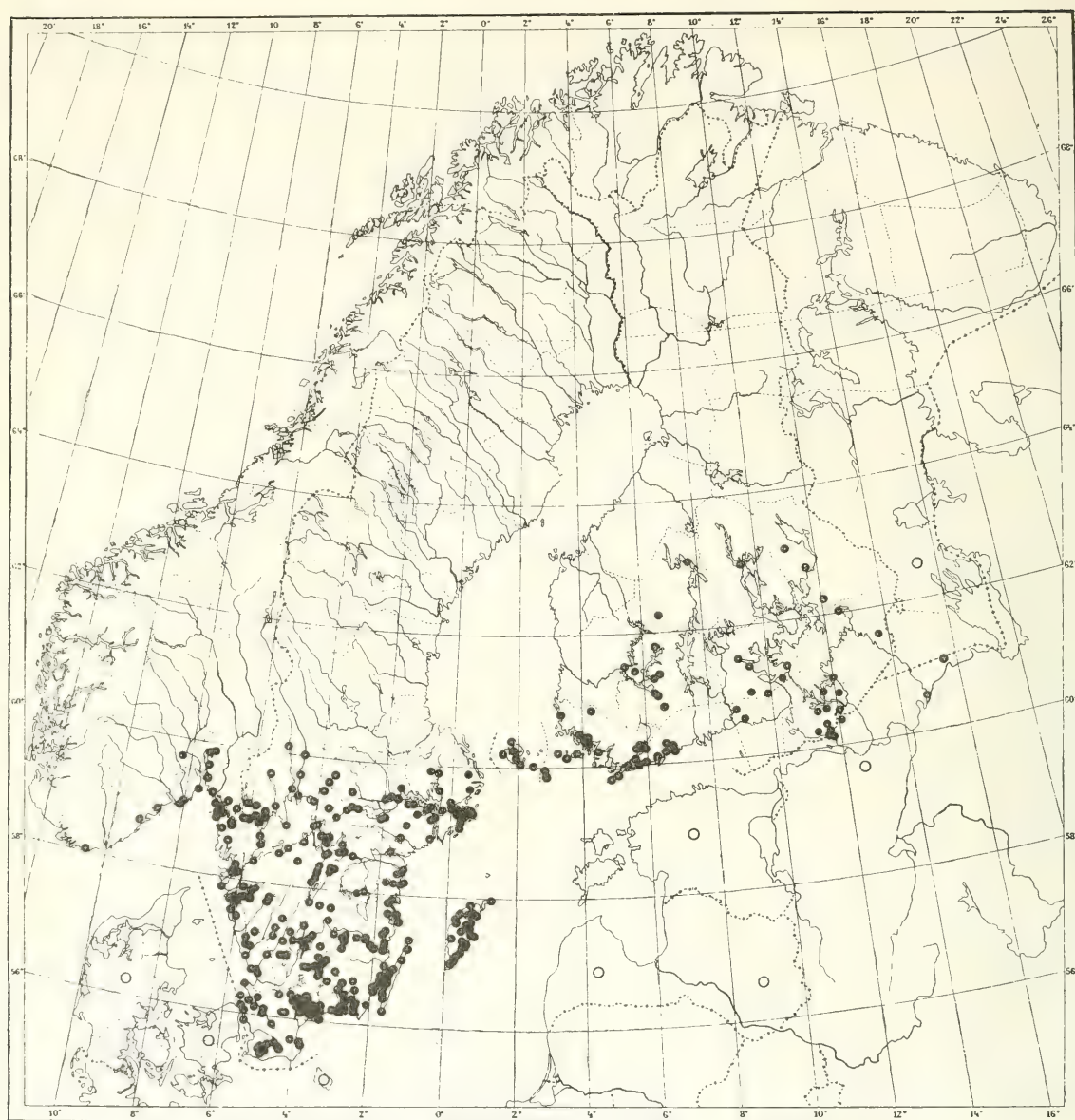


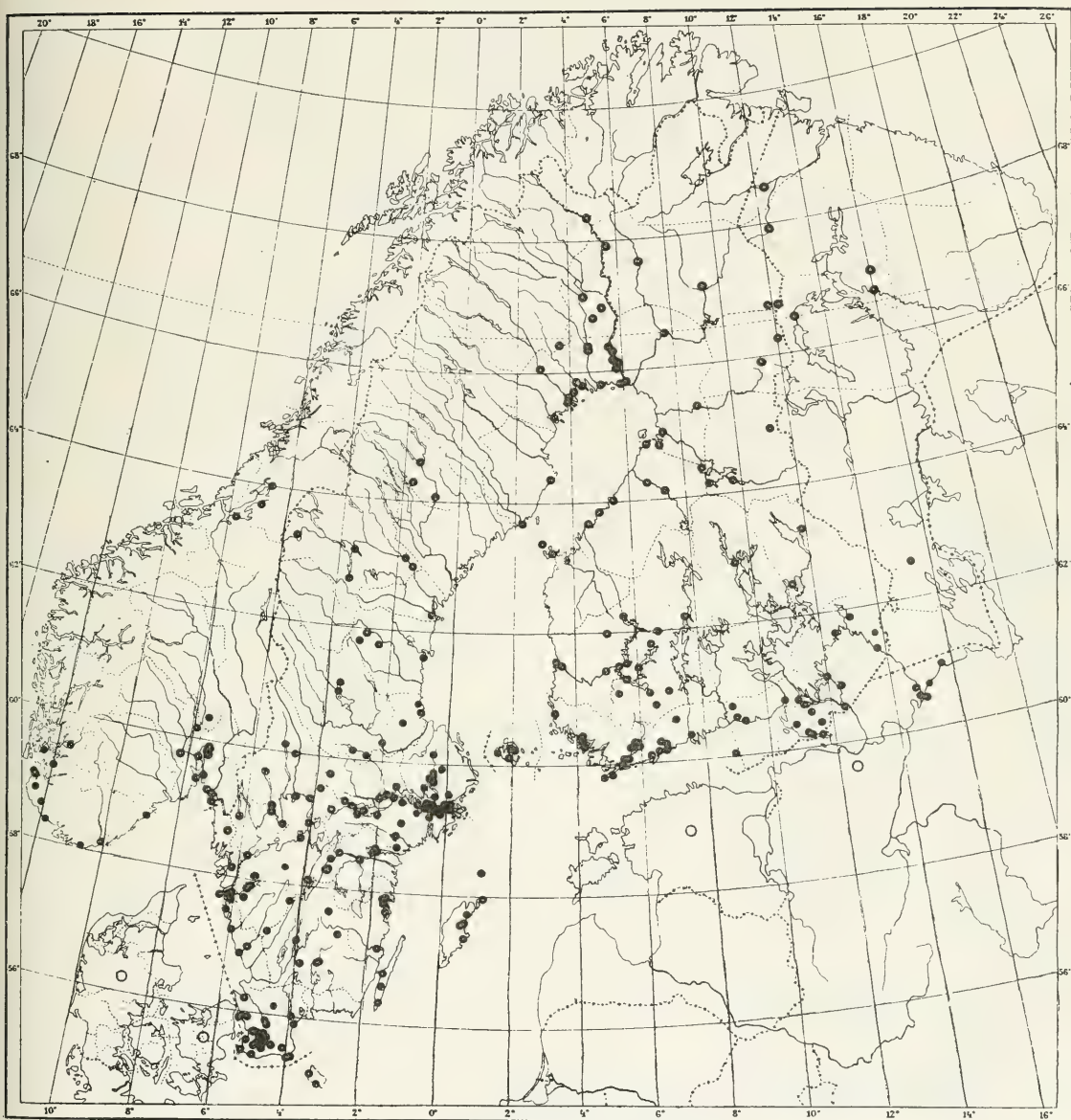


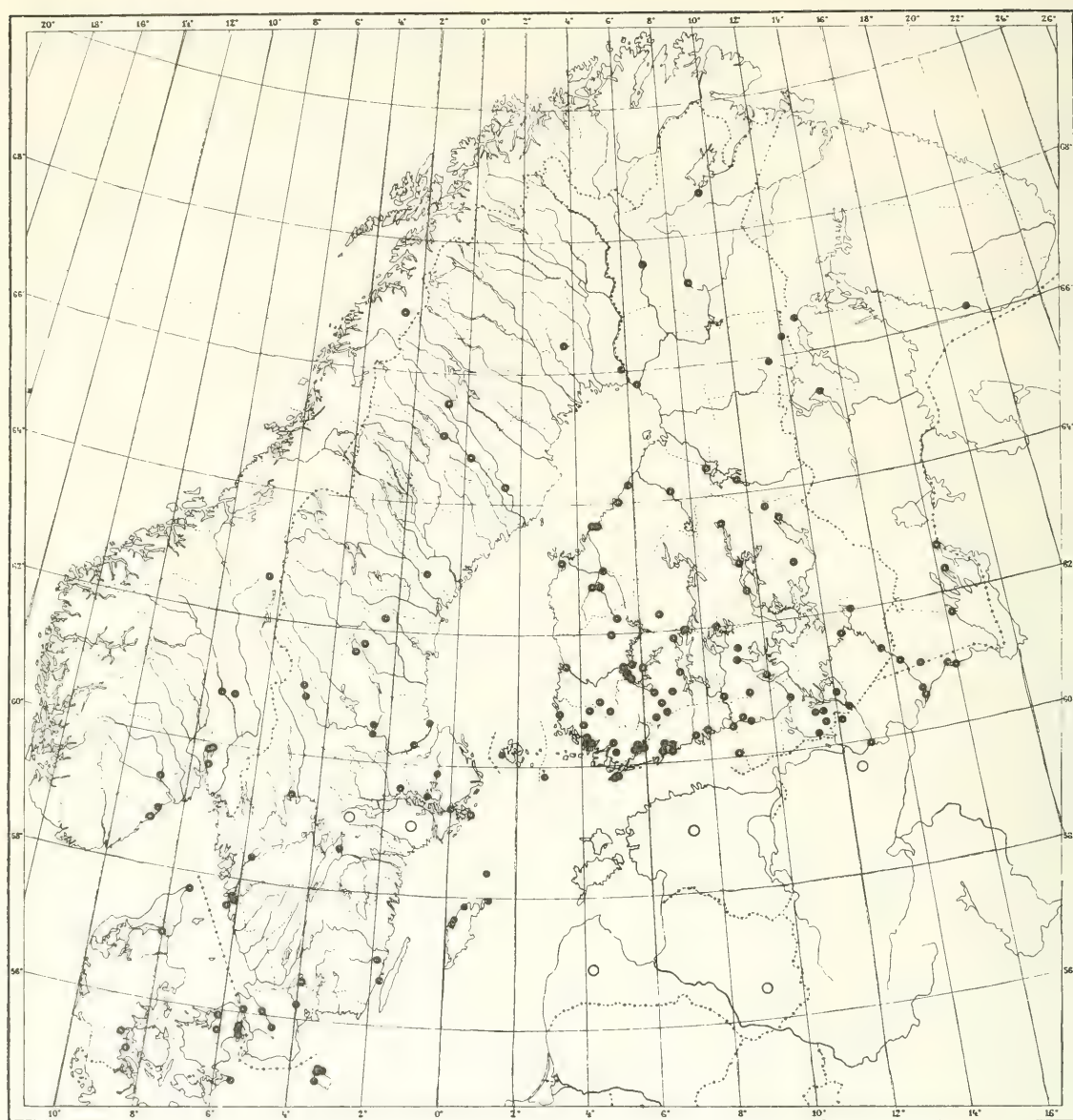


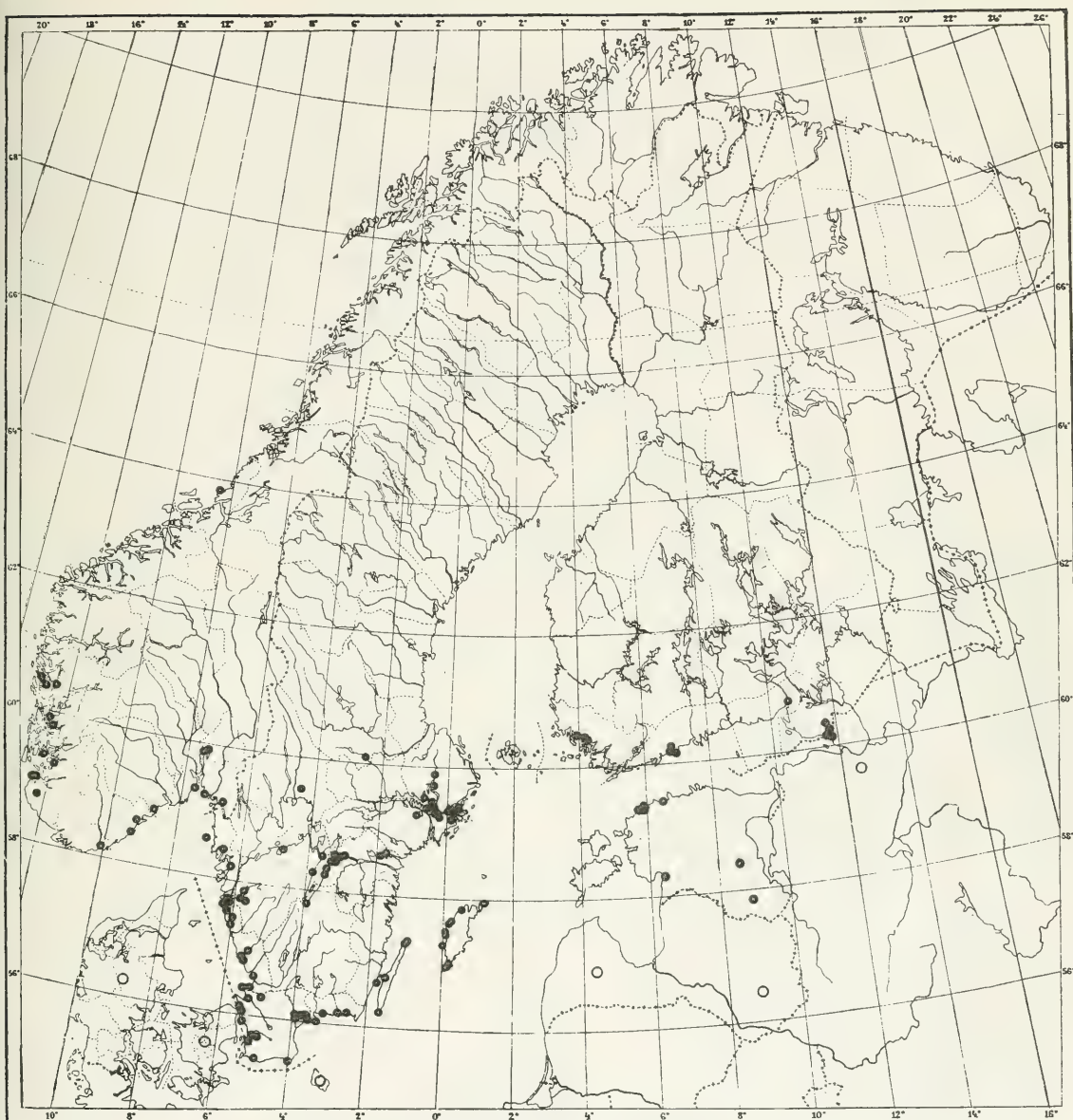


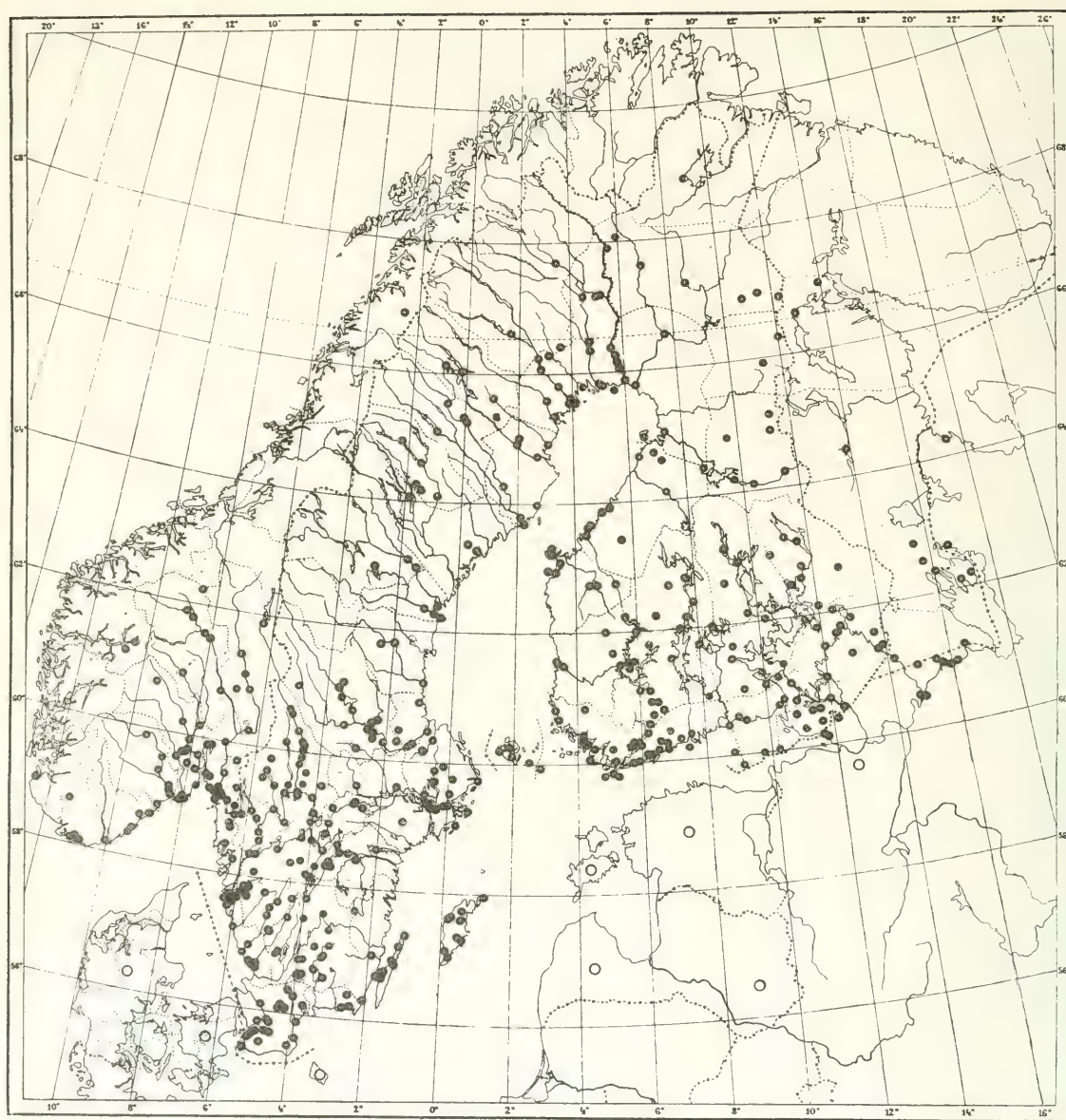


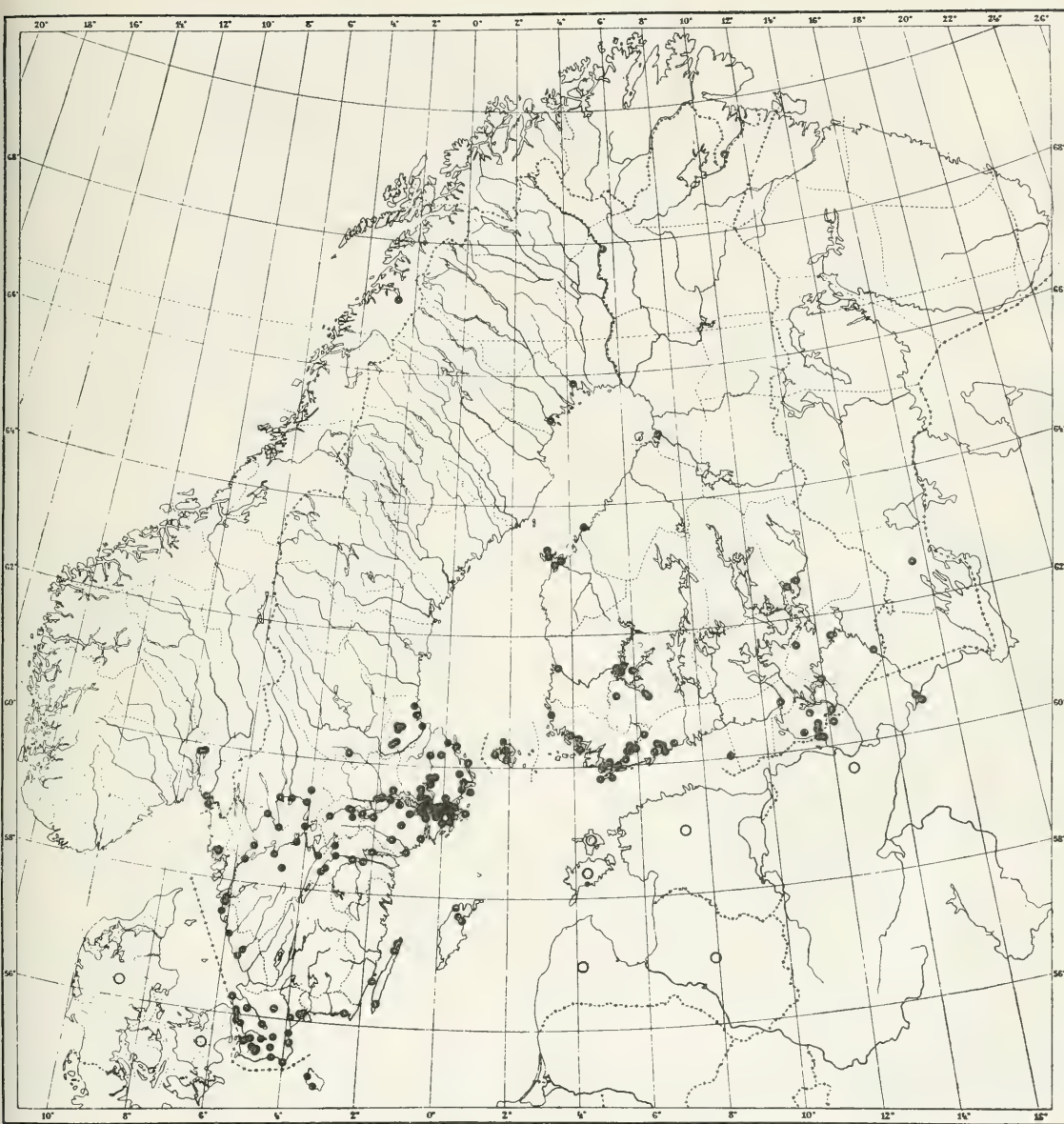


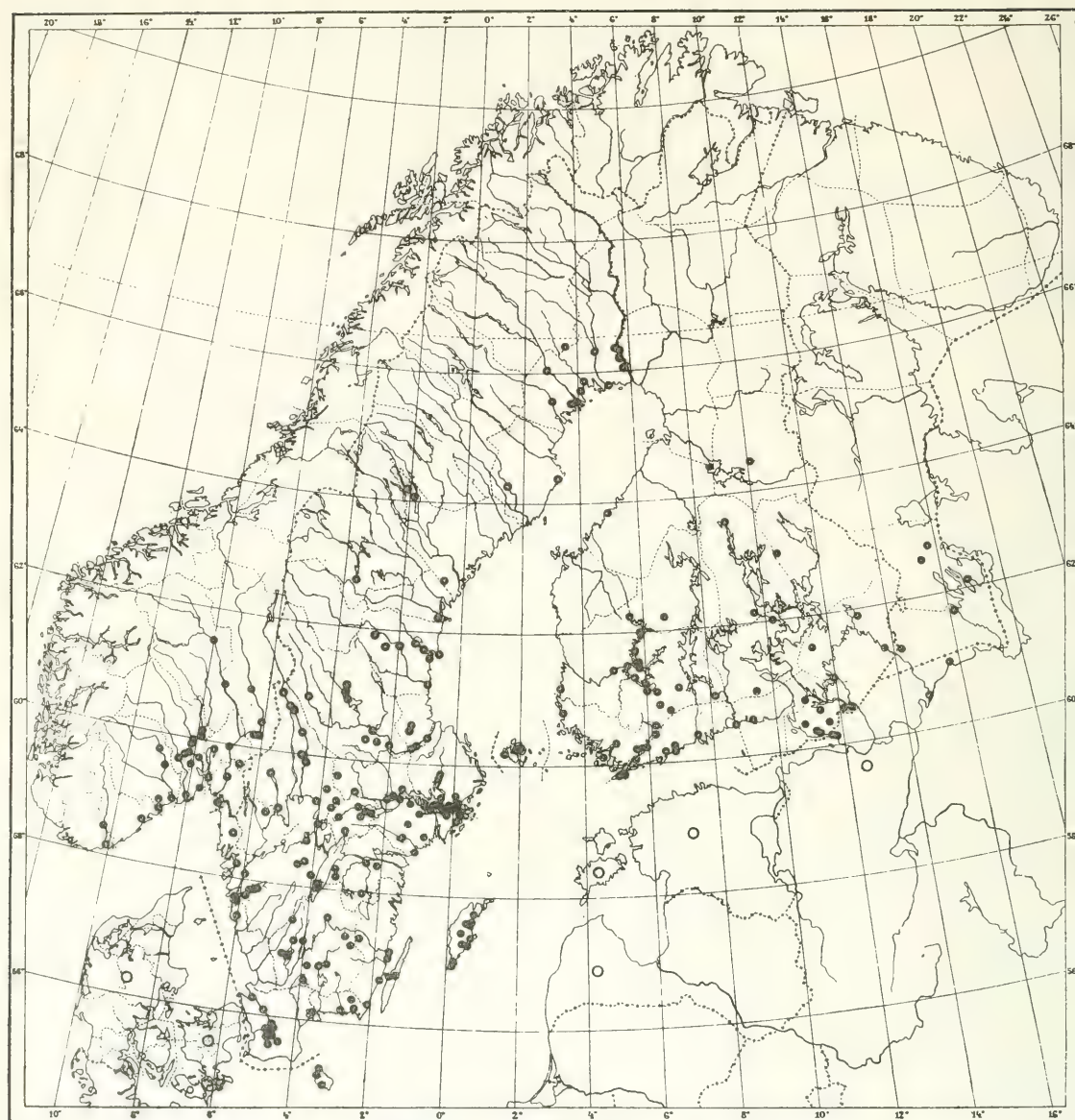


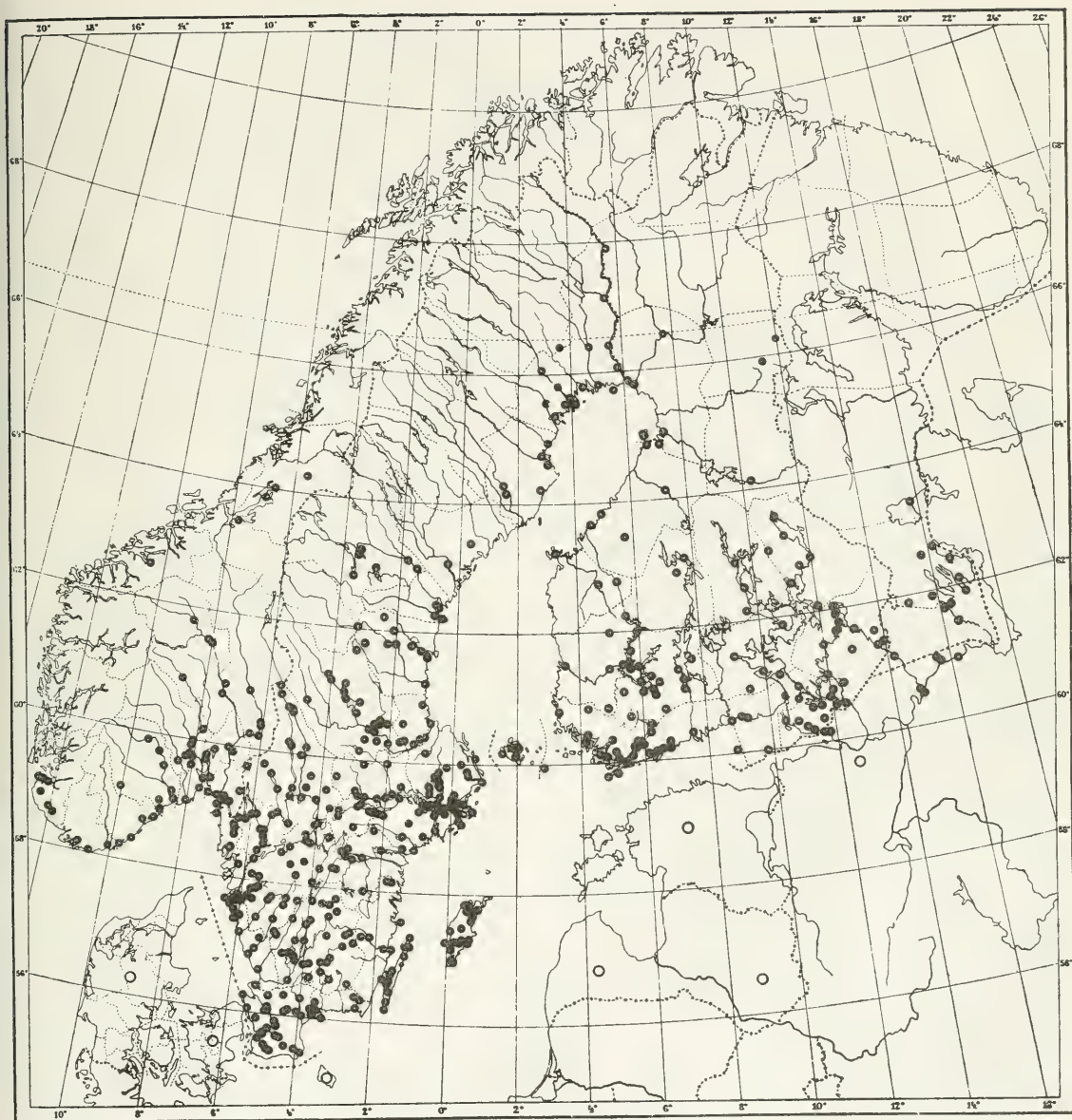






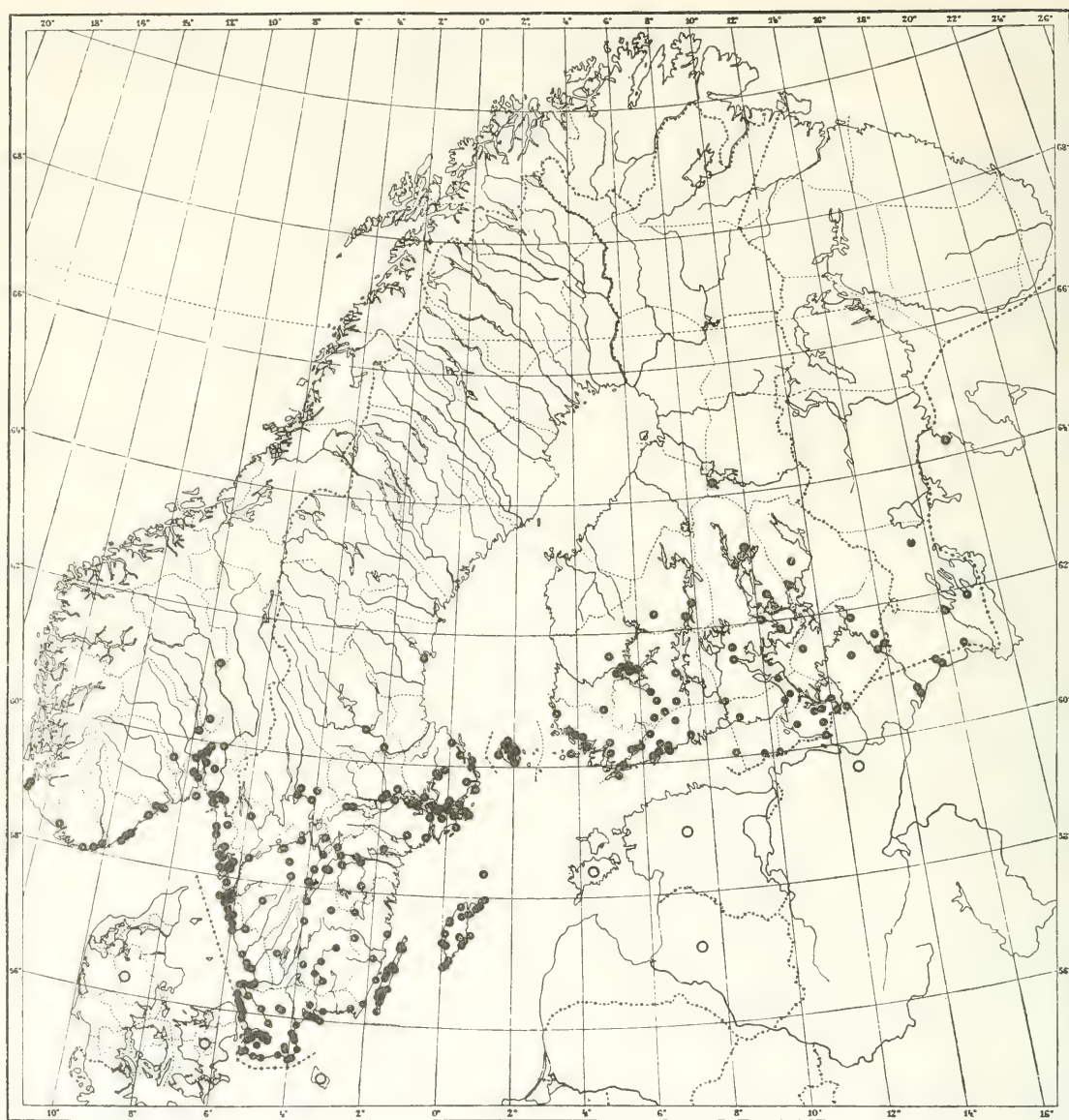






37

35. *Agonum viduum* Panz. s. str.
(compare *A. moestum*).



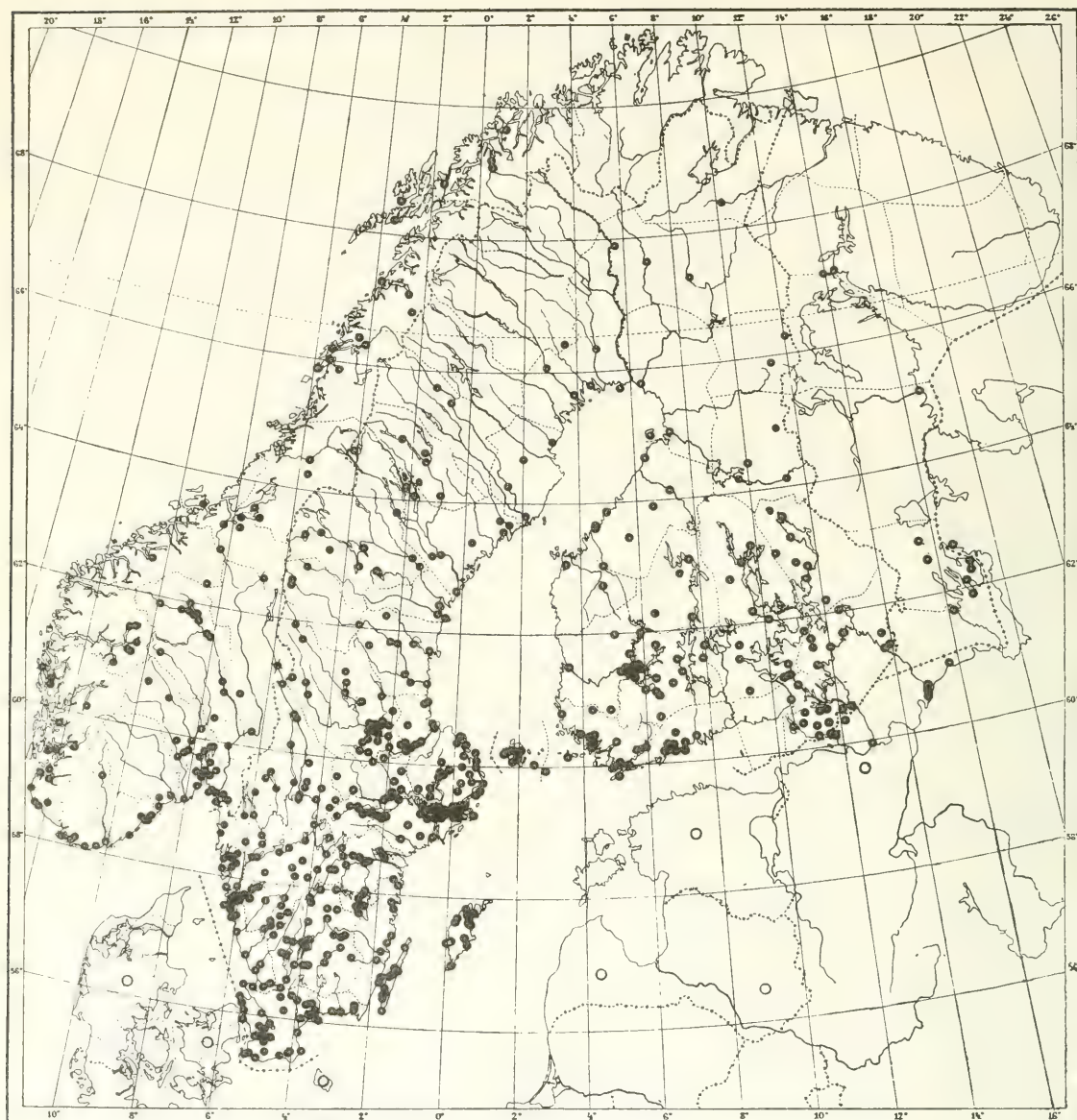


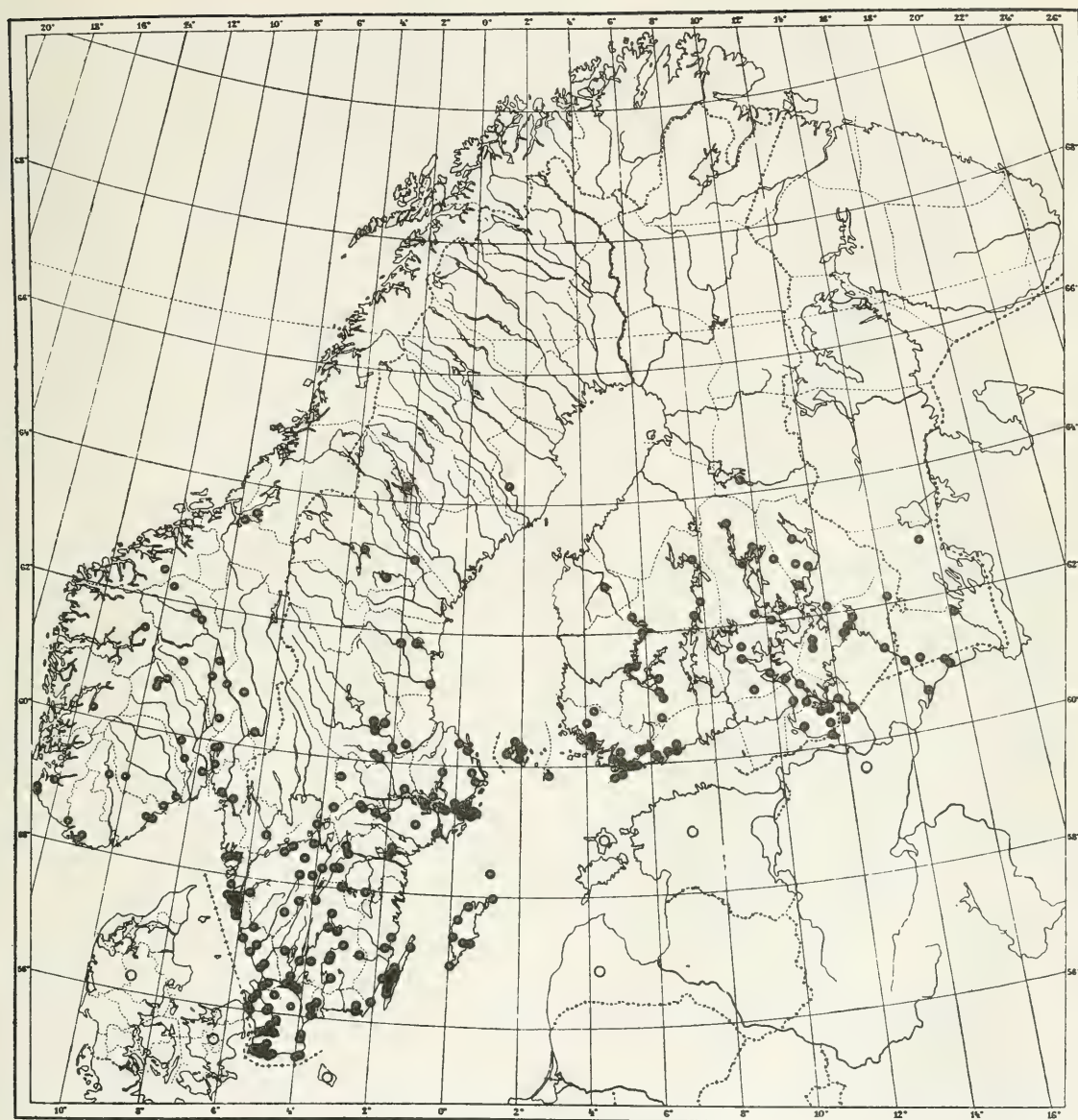


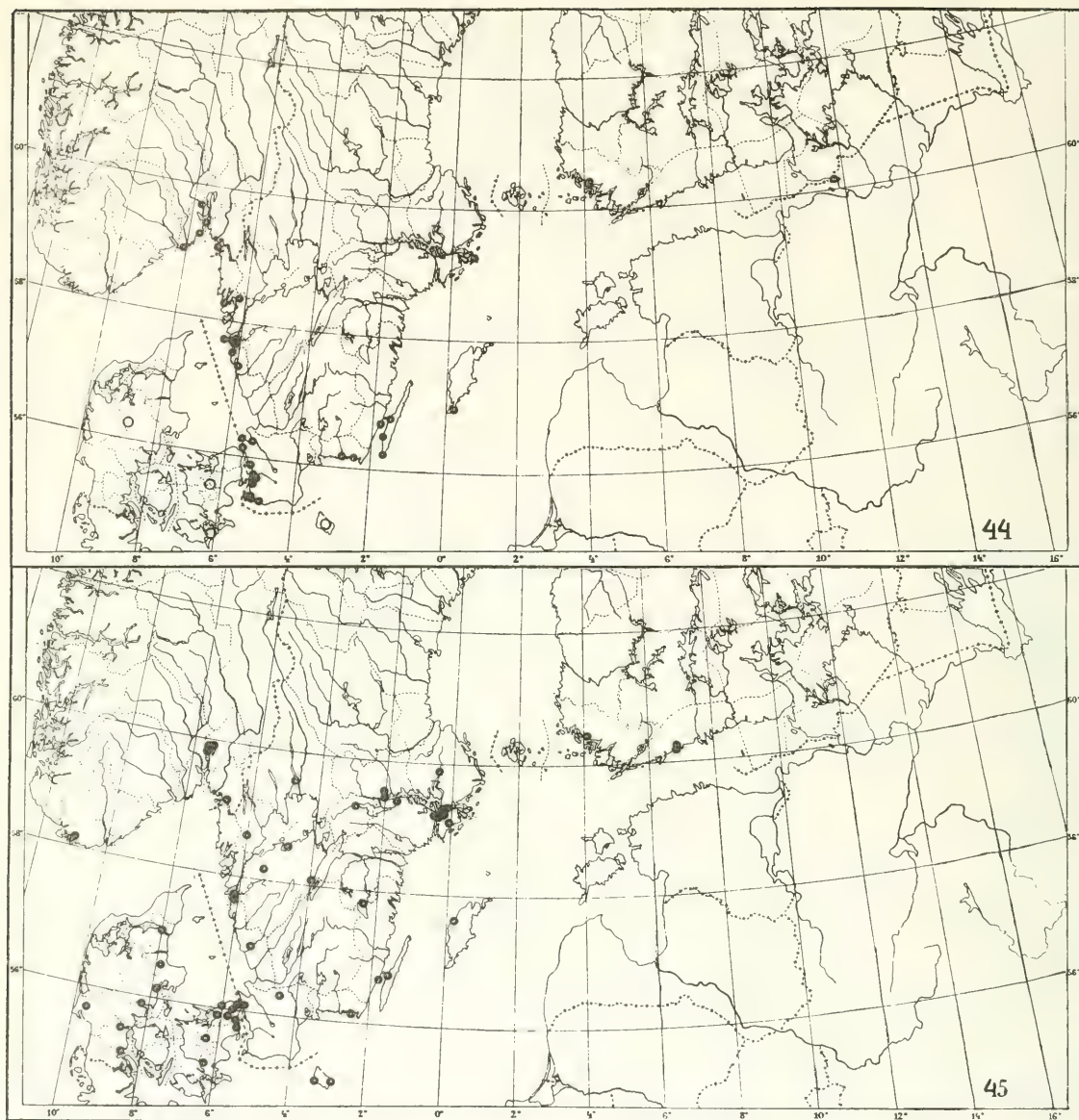






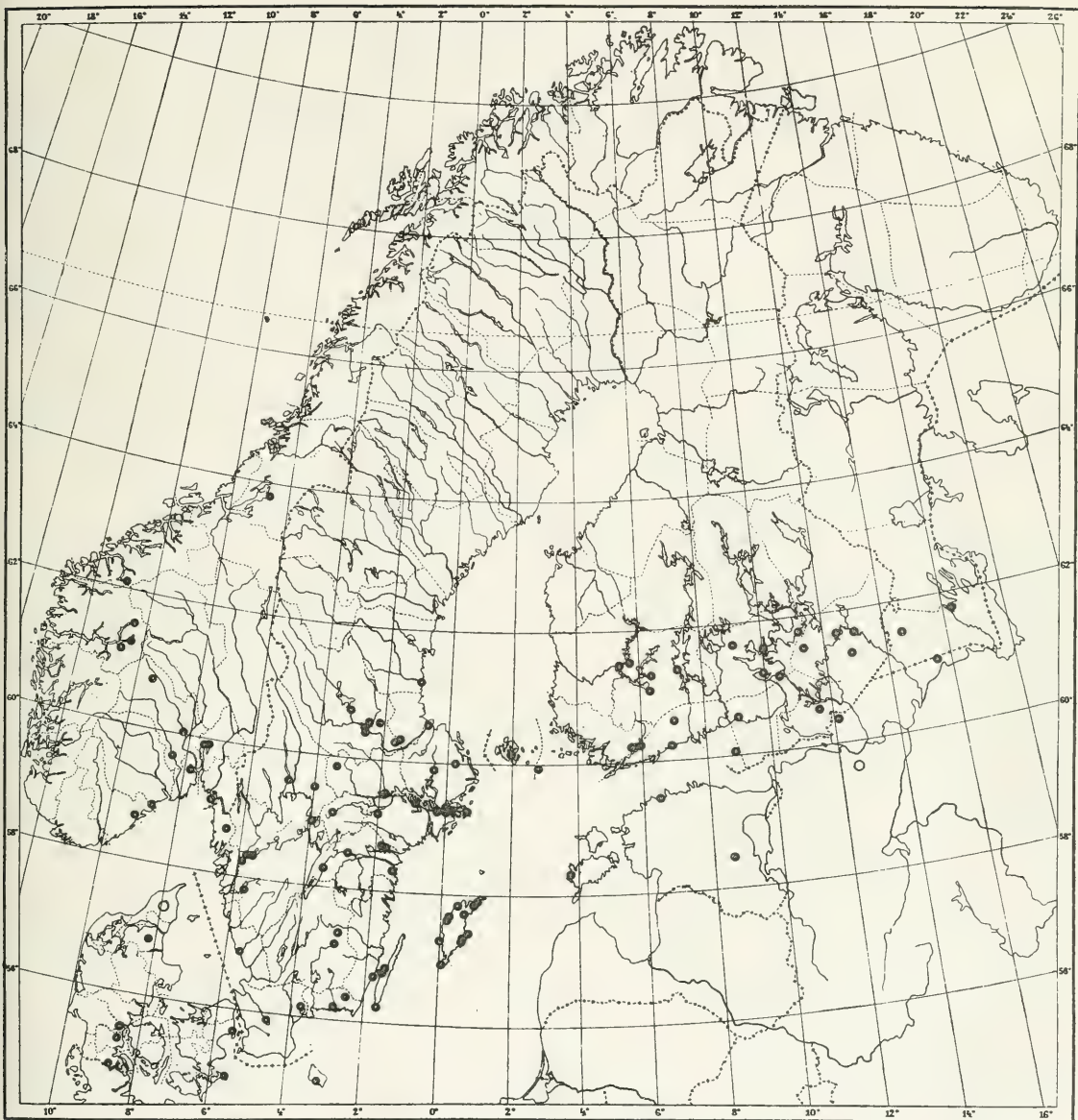


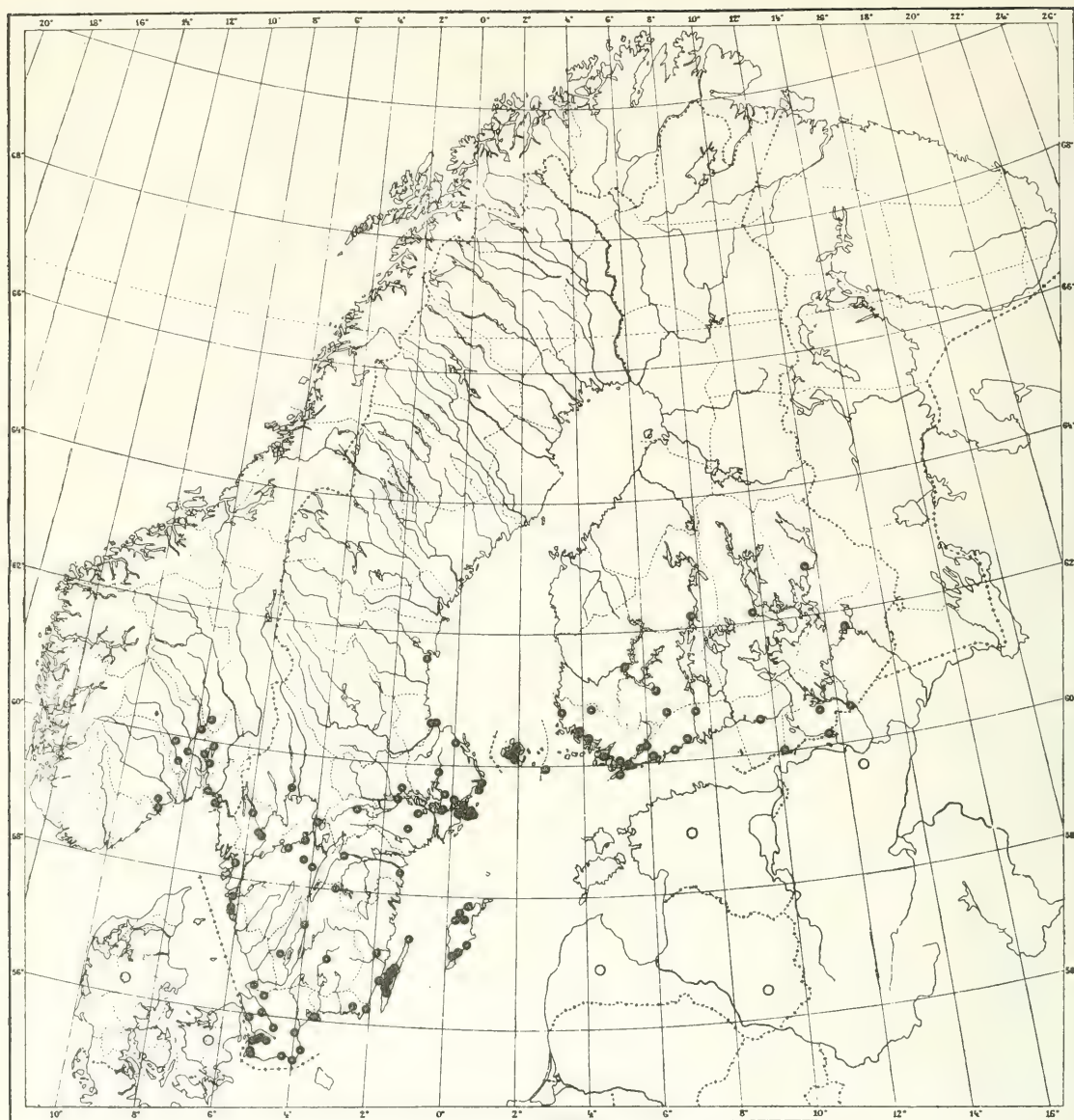


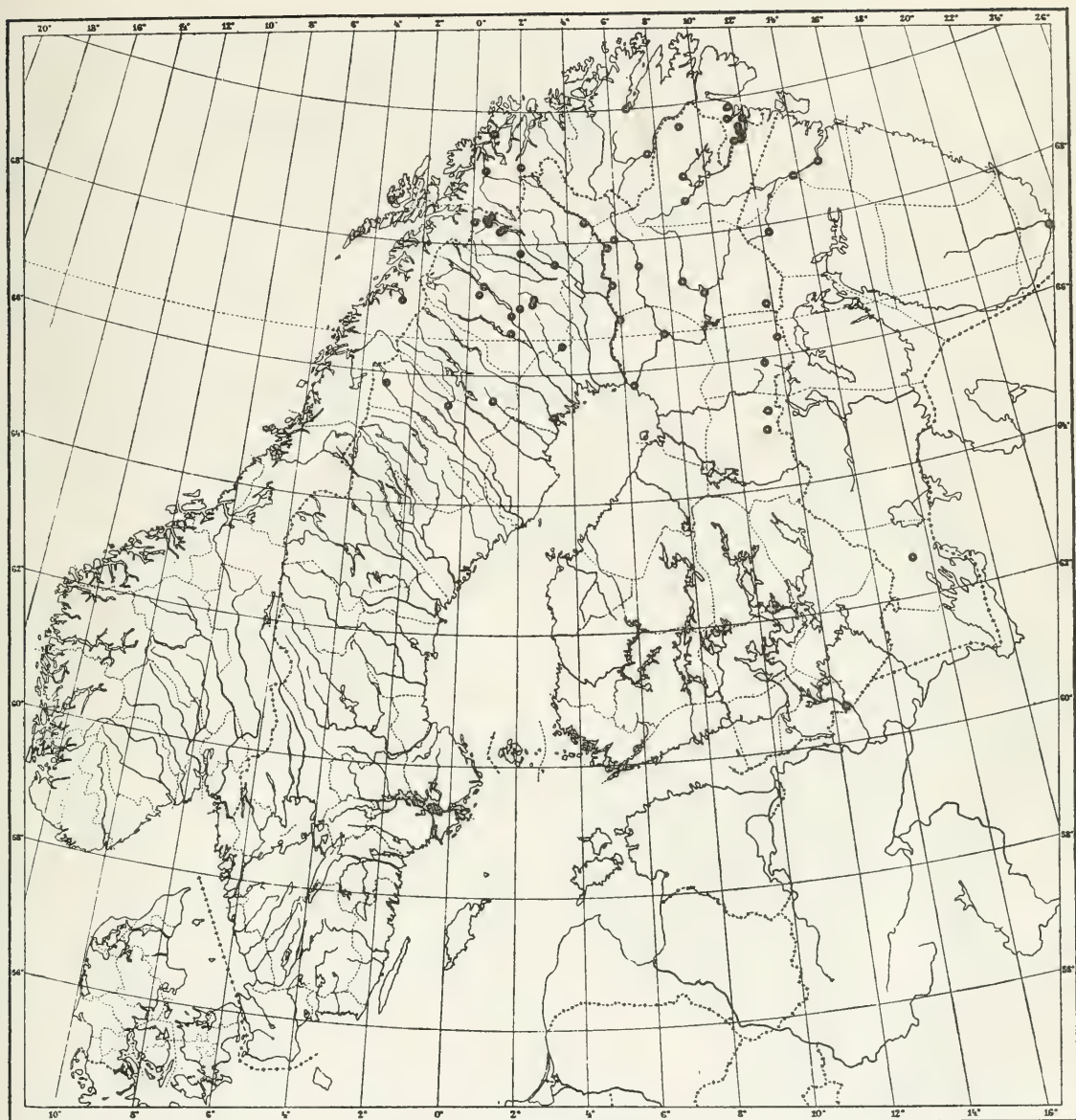


46

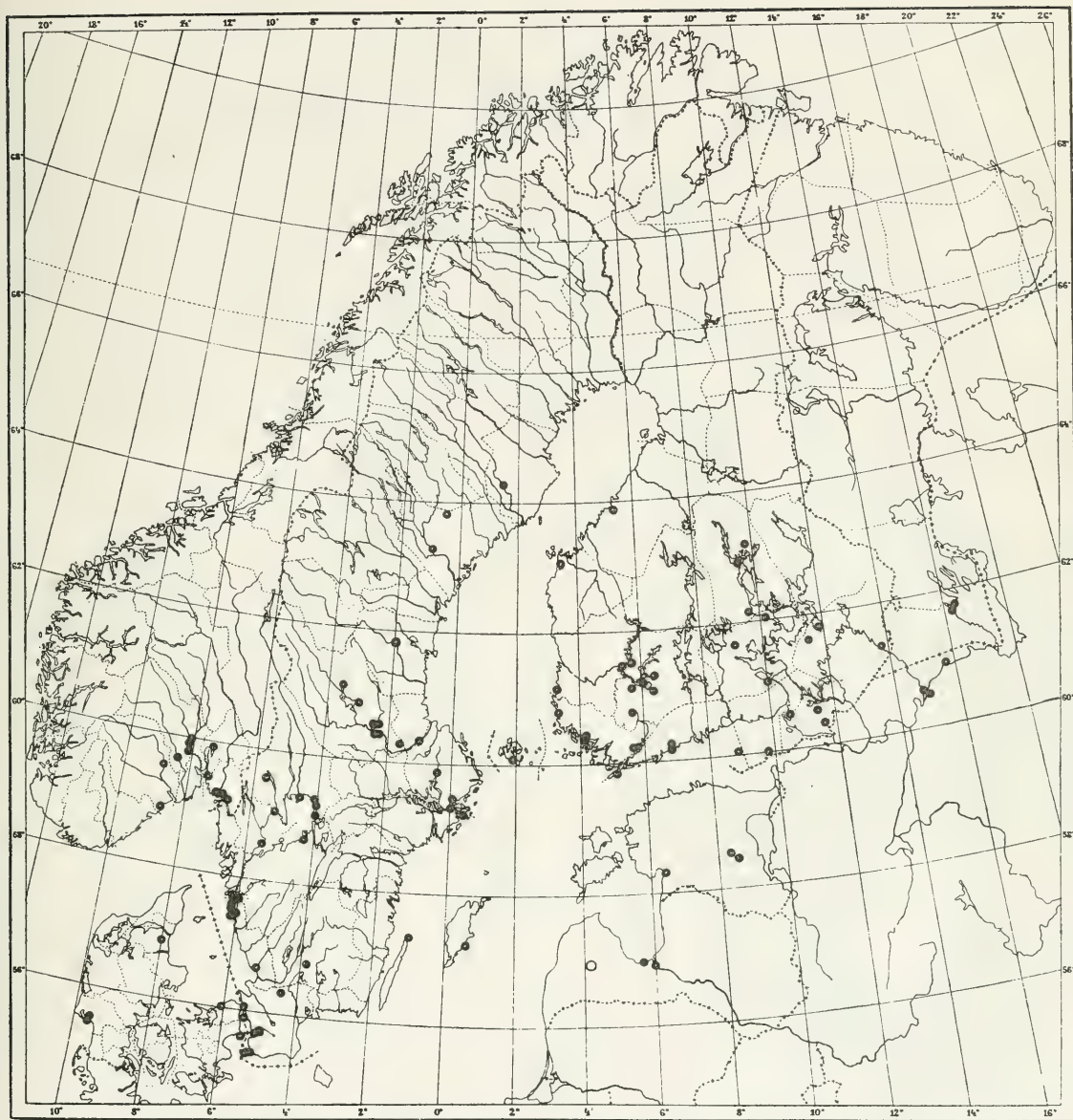
44. *Amara convexiuscula* Mrsh.45. *Amara cursitans* Zimm. Provisional map.







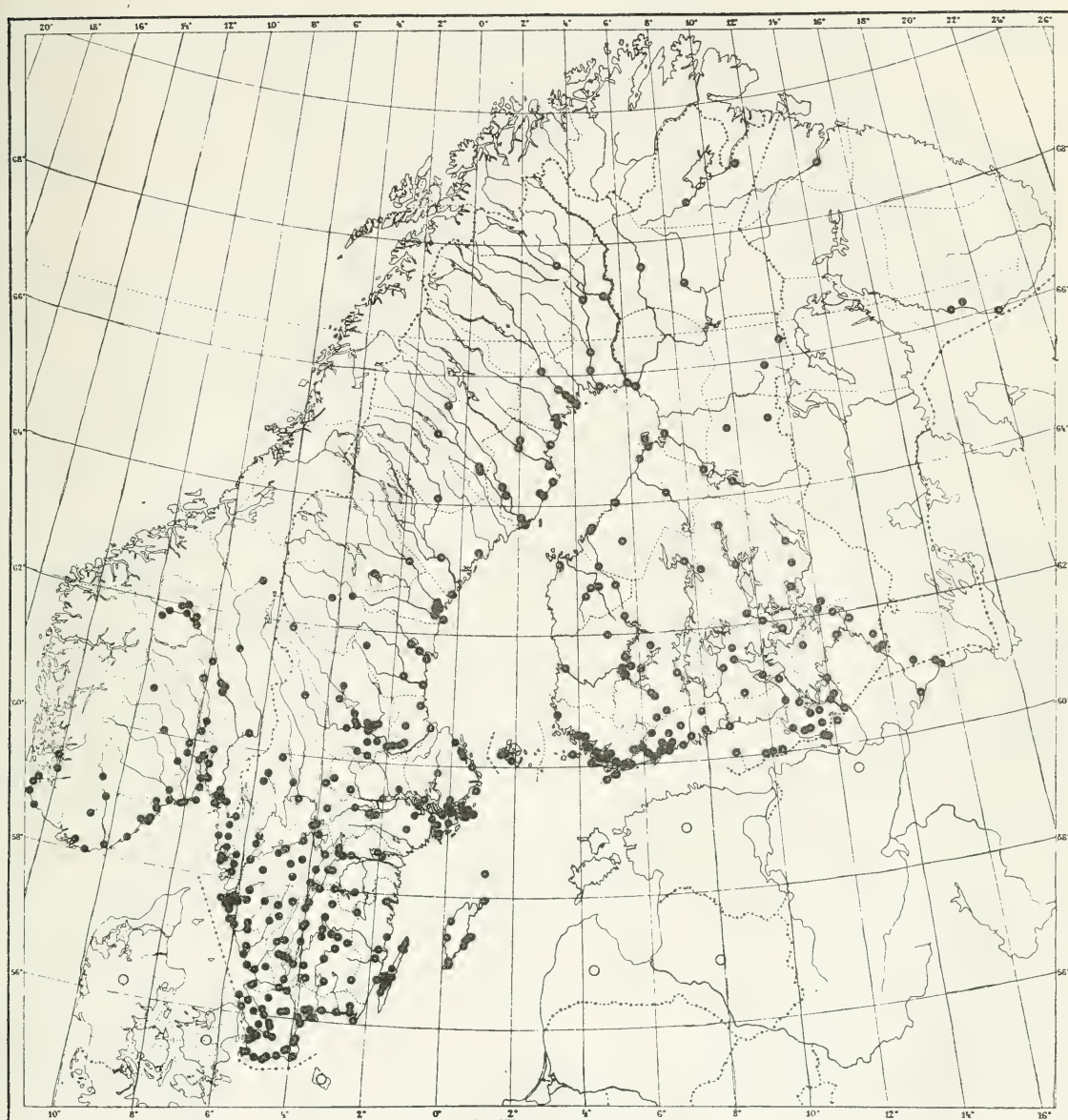


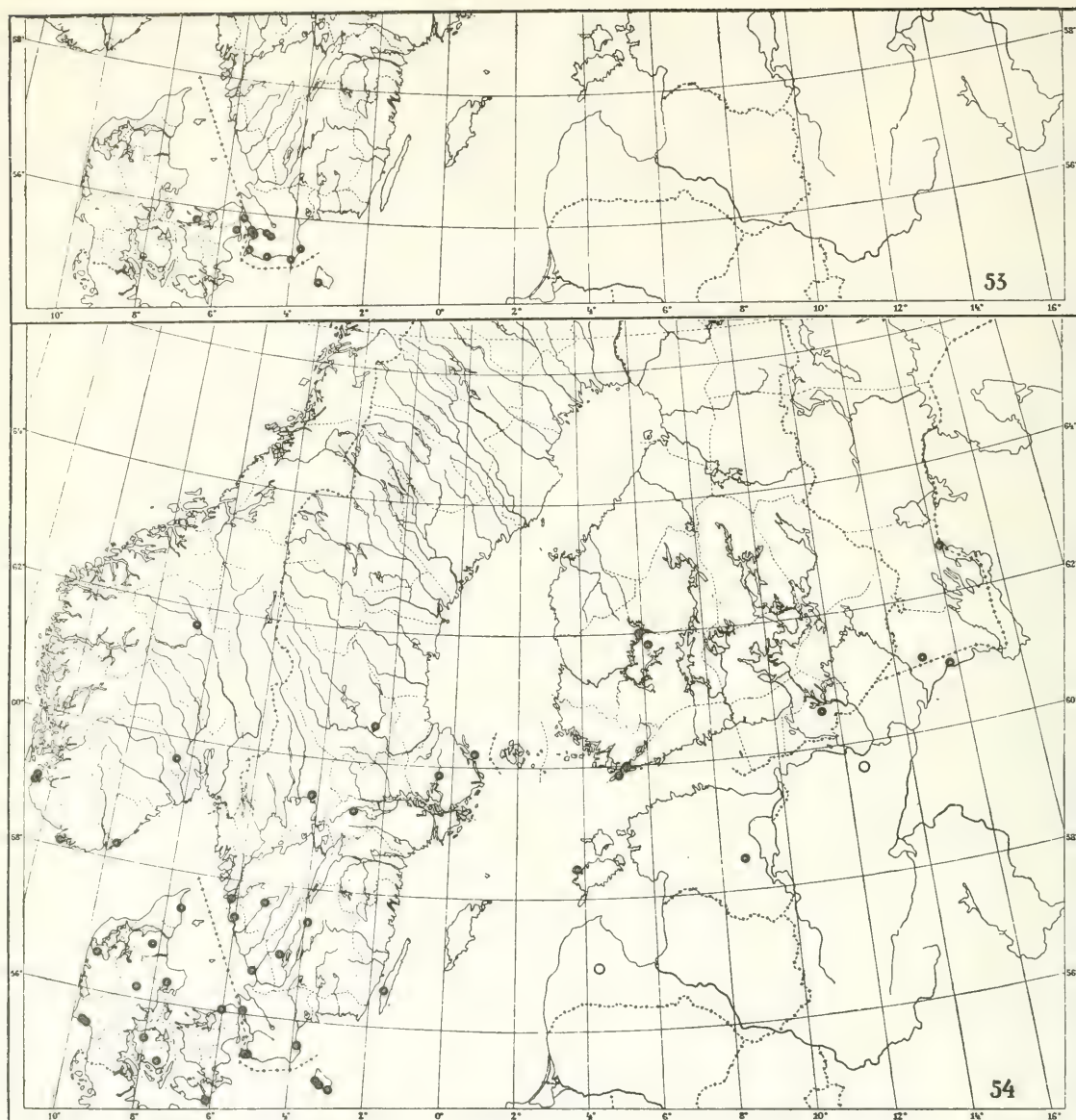




52

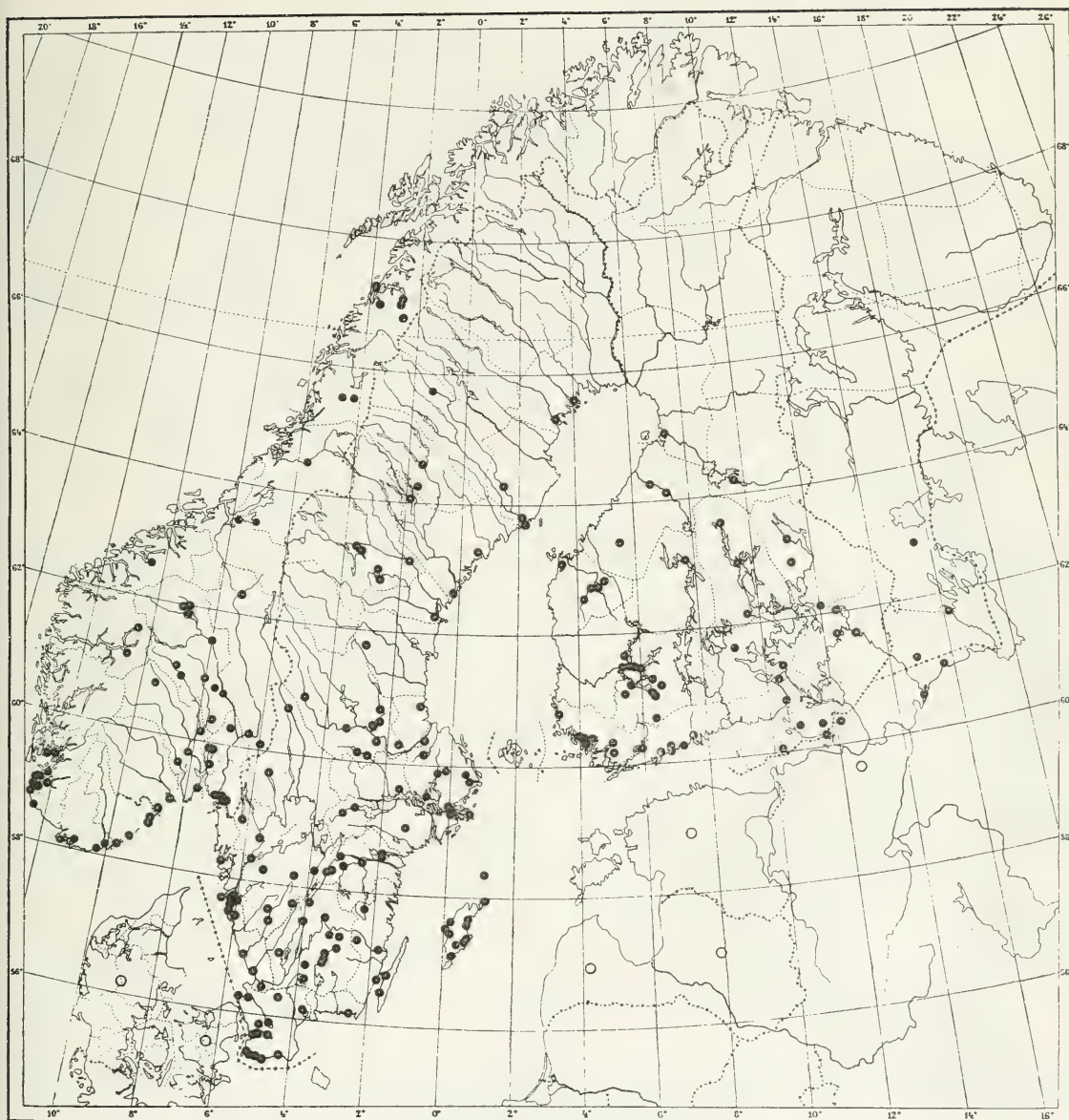
51. *Amara familiaris* Dft.





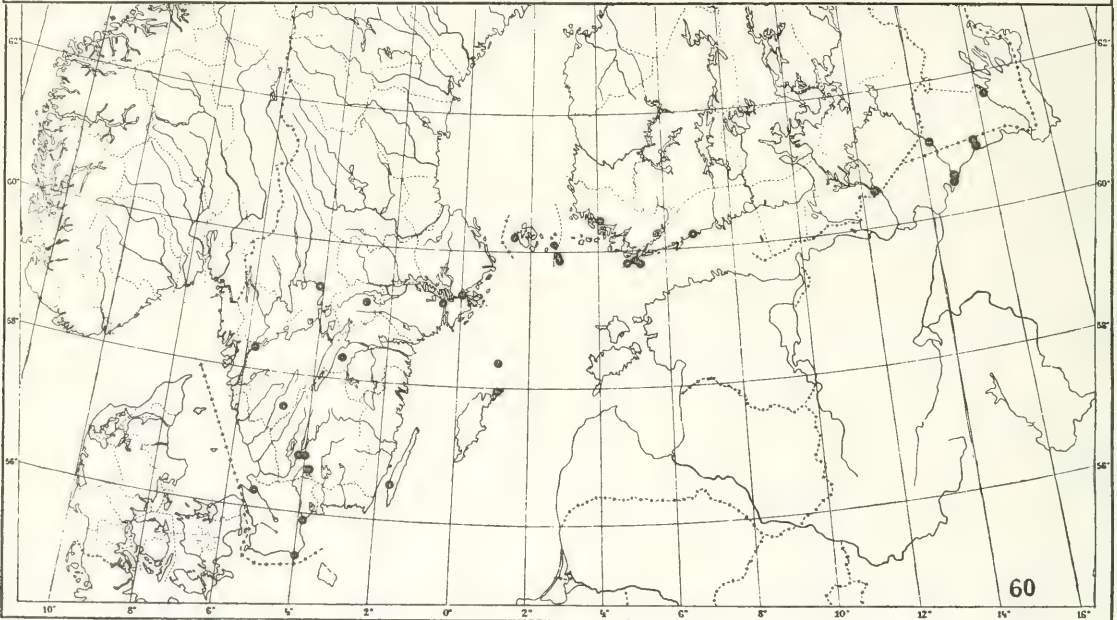
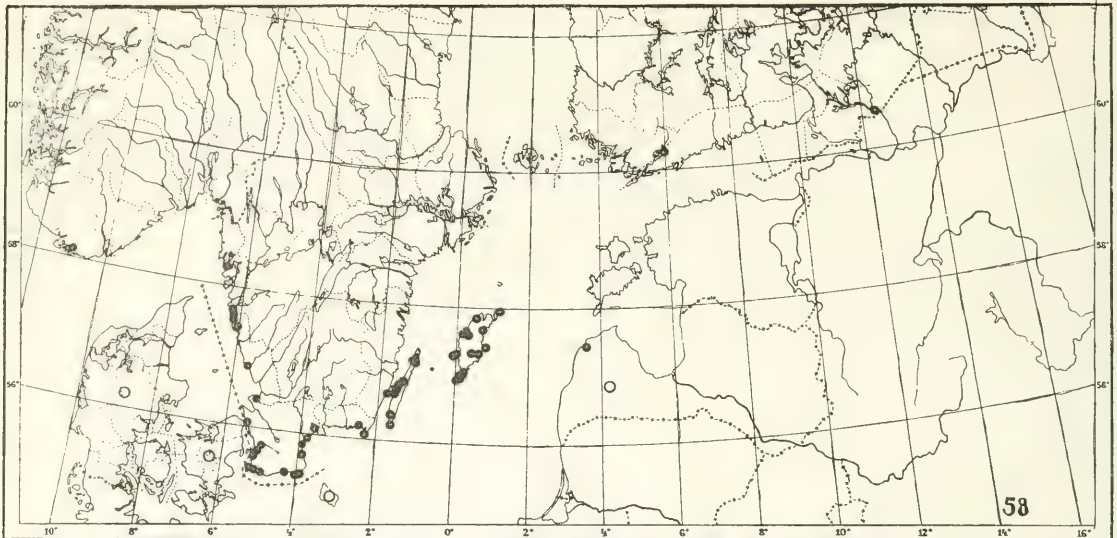
54

53. *Amara fusca* Dej.54. *Amara infima* Dft.



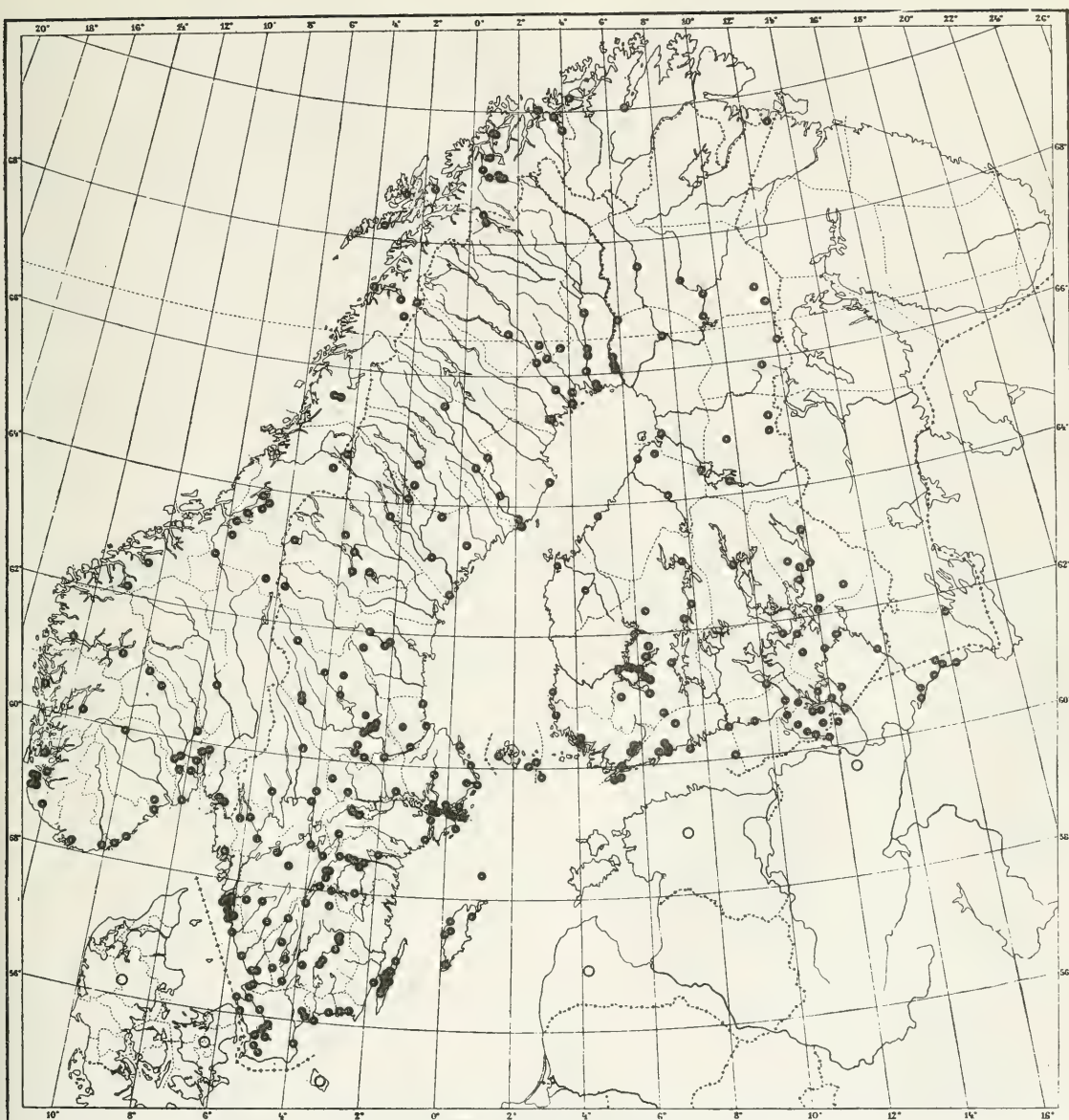






58

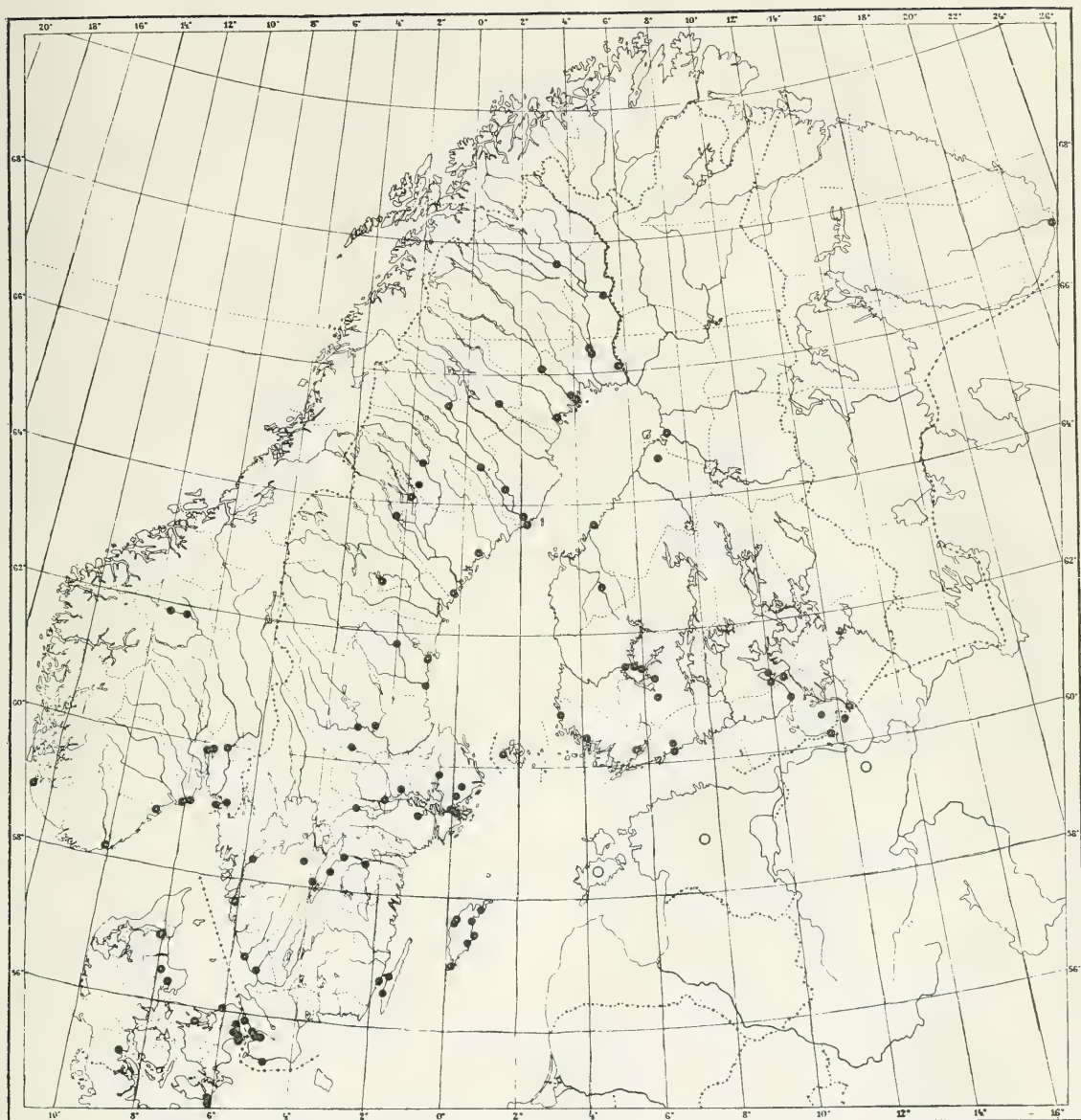
58. *Amara lucida* Dft.(59. *Amara lunicollis*, see p. 53.)60. *Amara majuscula* Chd. Provisional map.



59

59. *Amara lunicollis* Schio.(60. *Amara majuscula*, see p. 52.)

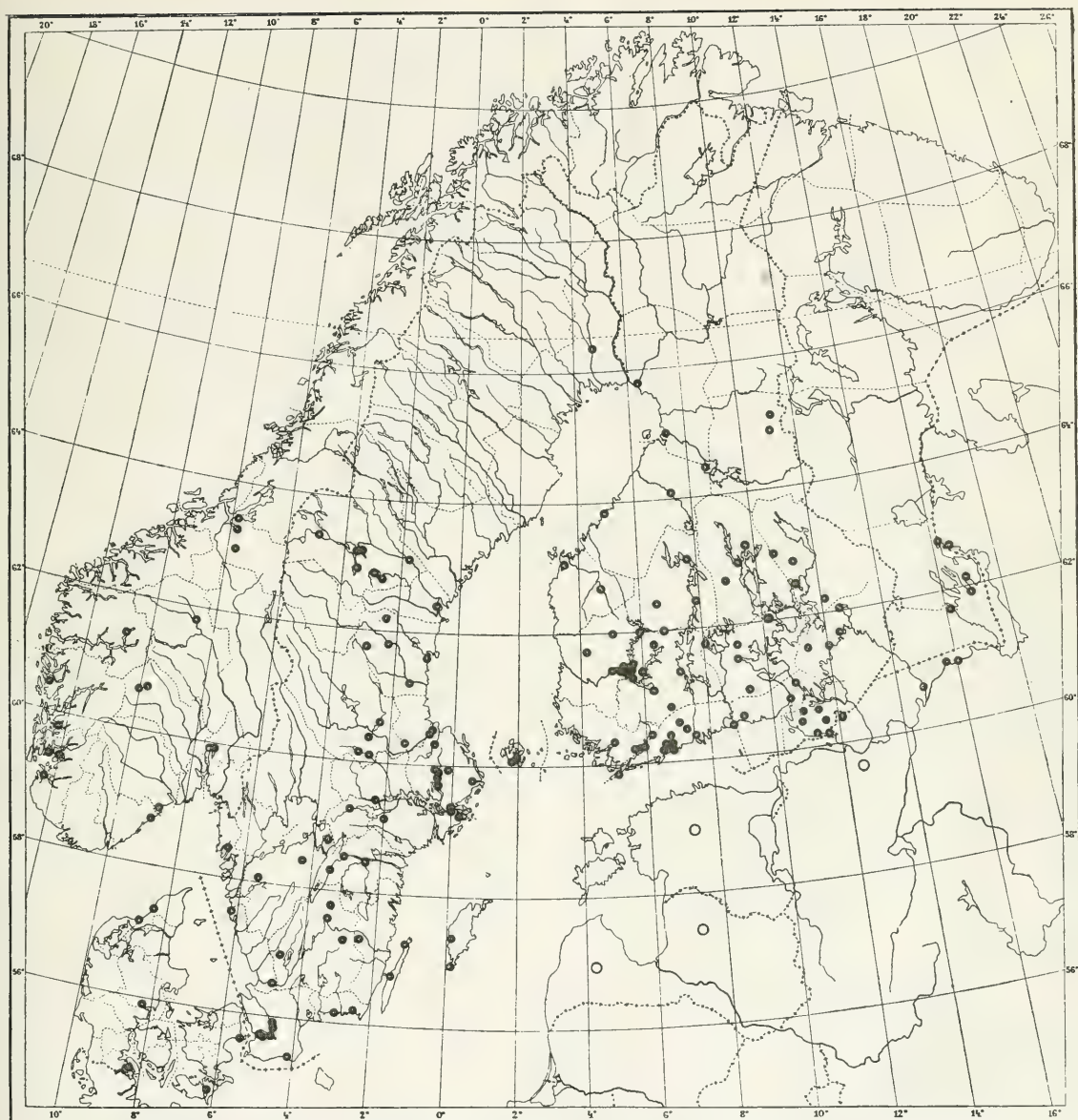


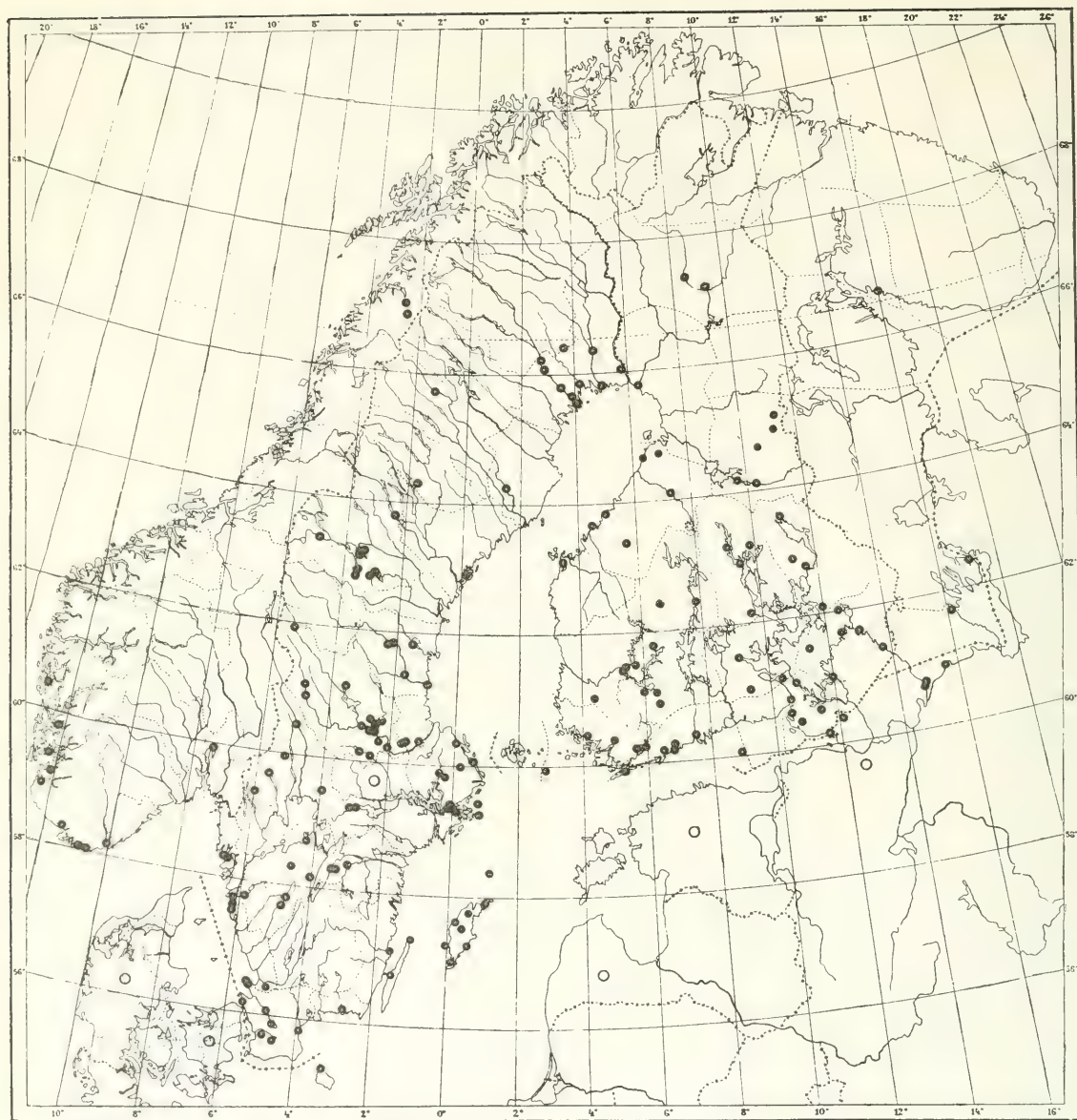


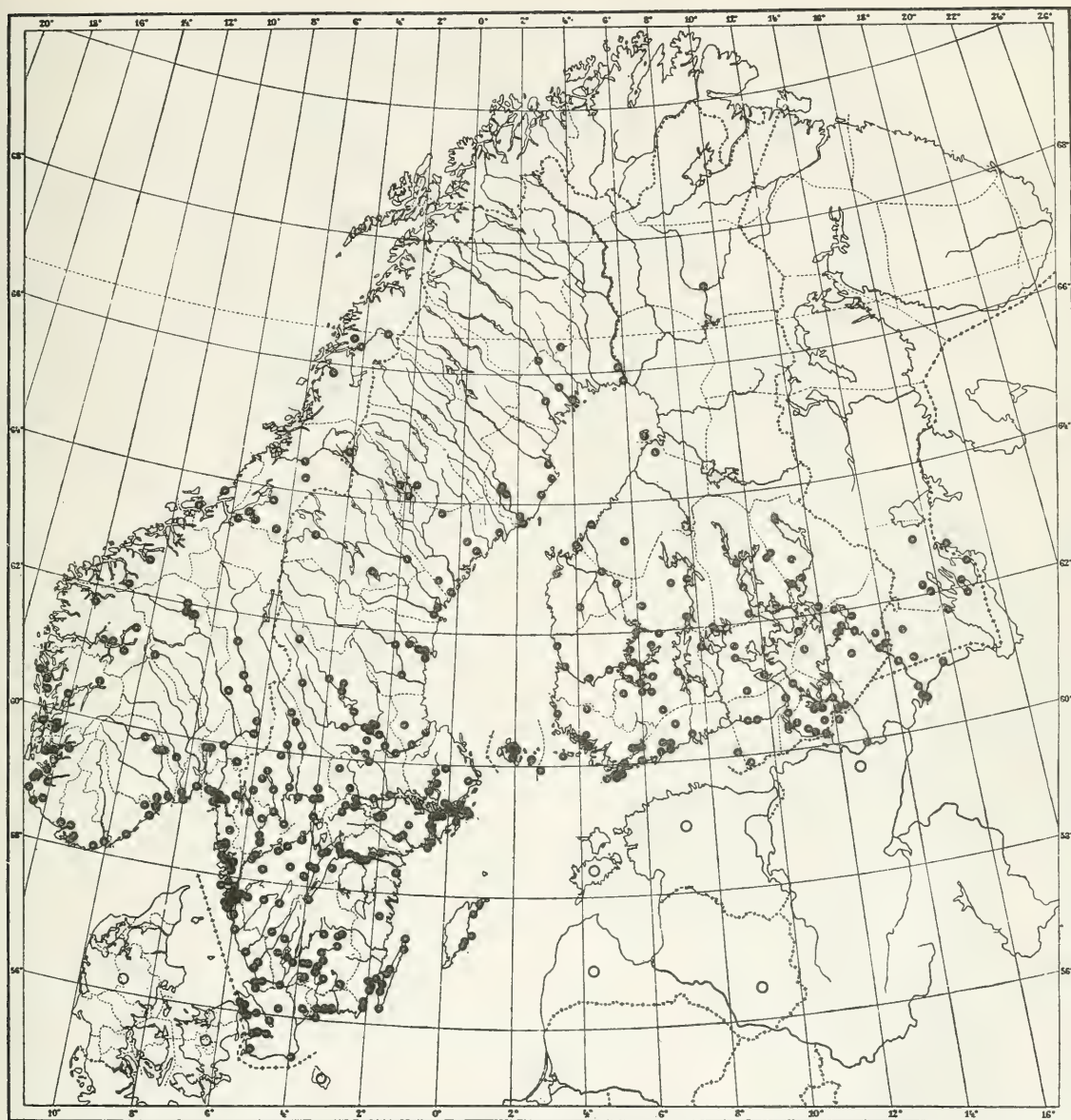
61

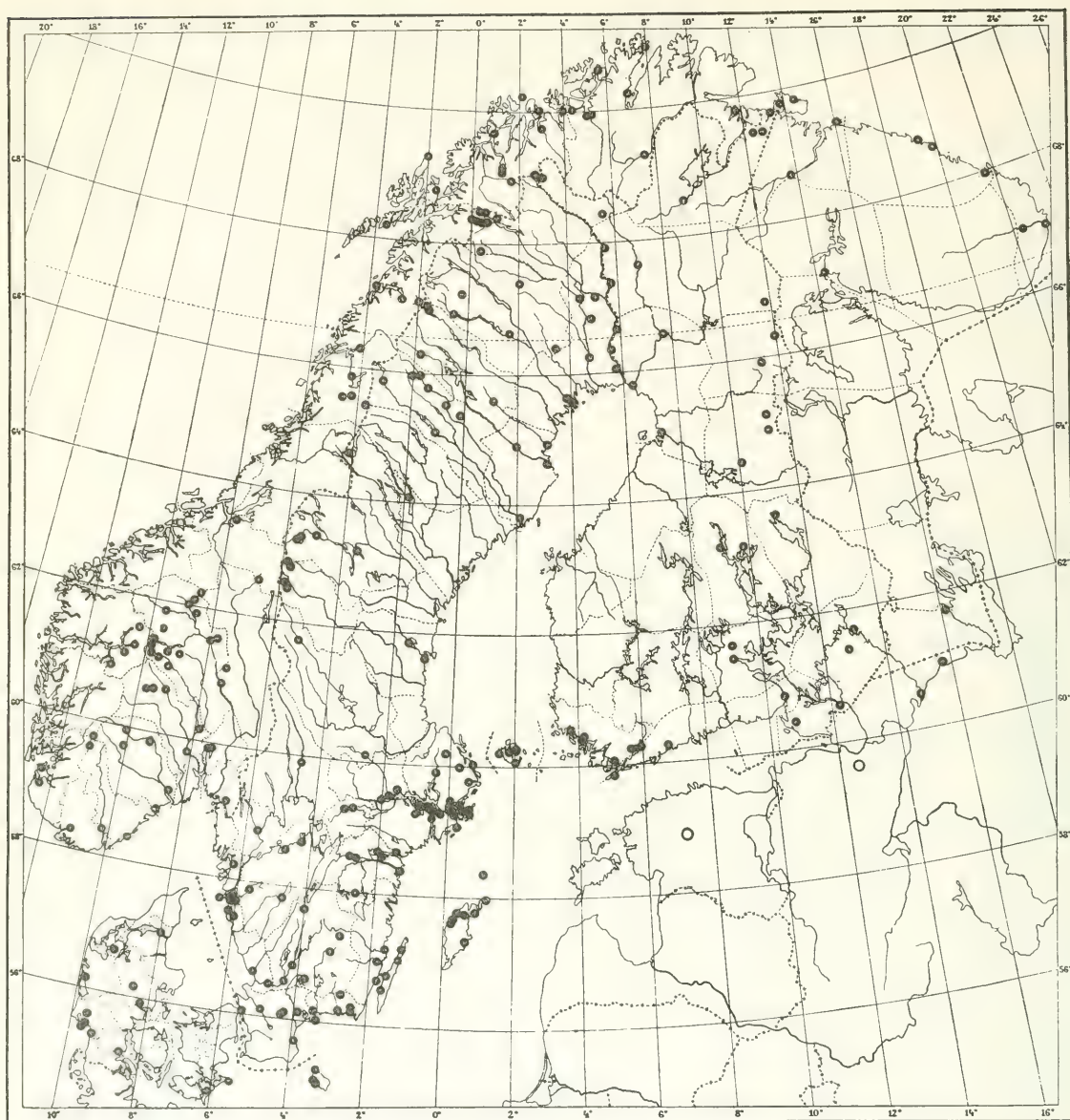
62. *Amara municipalis* Dft. Provisional map.

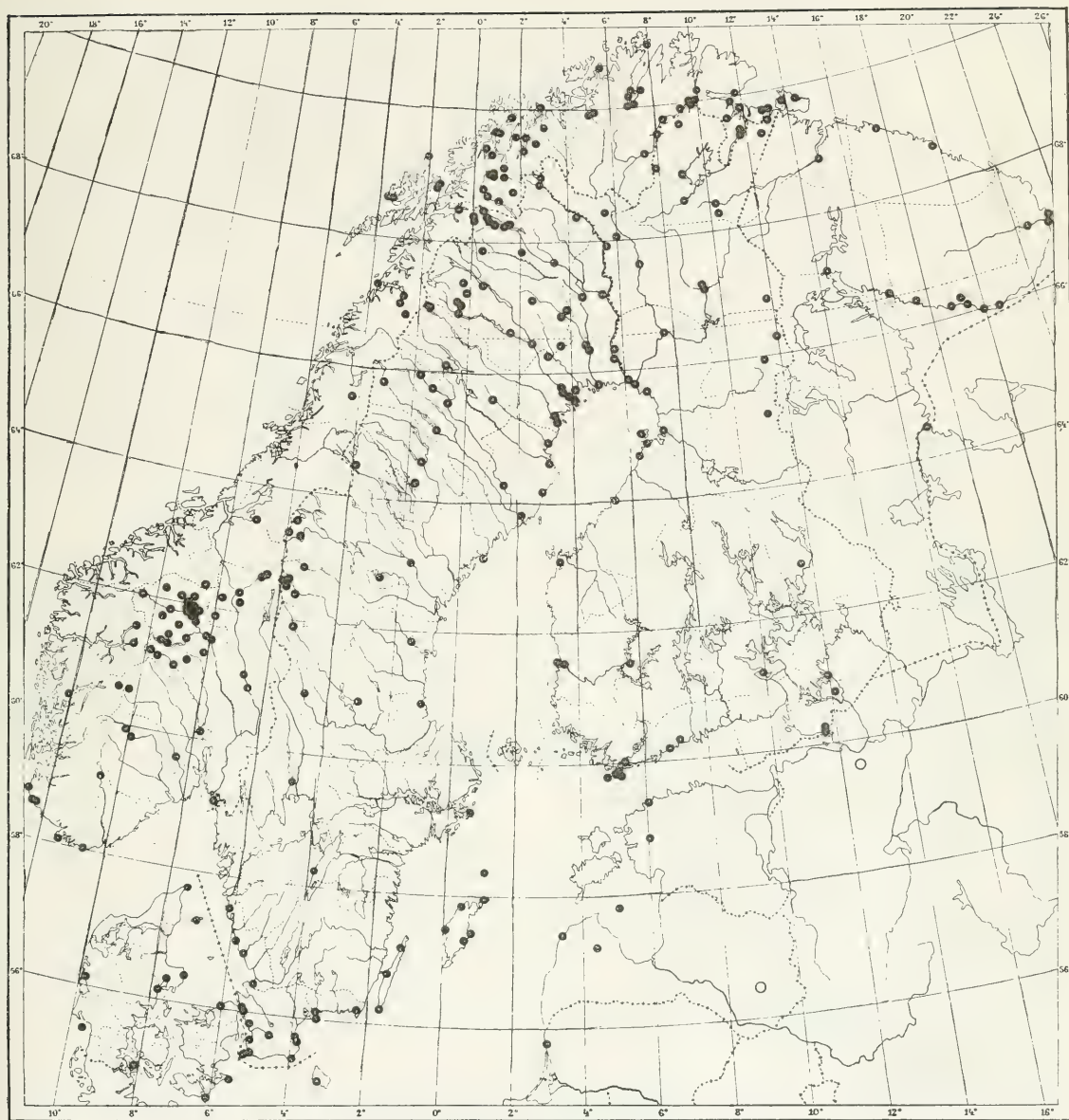


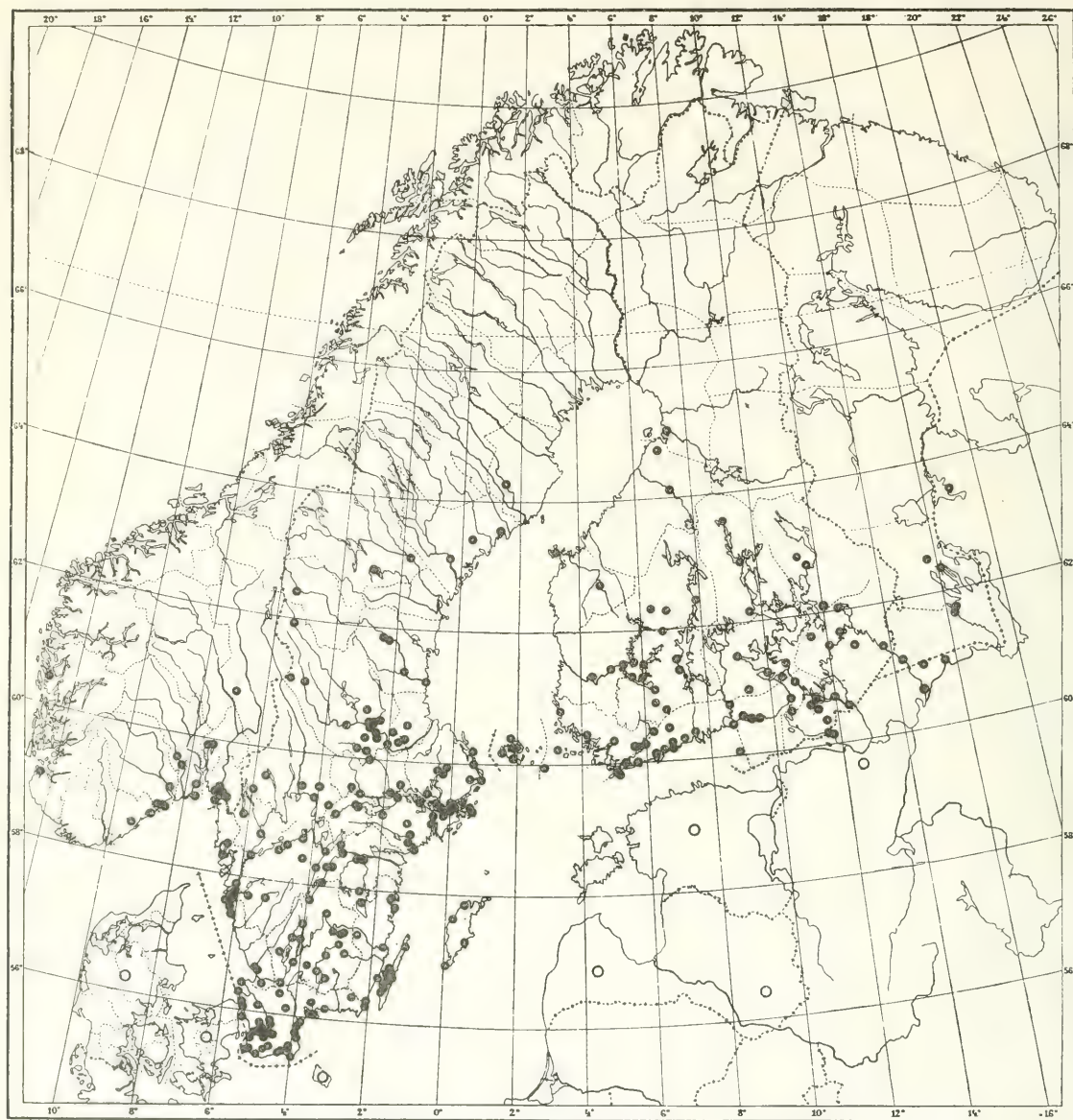






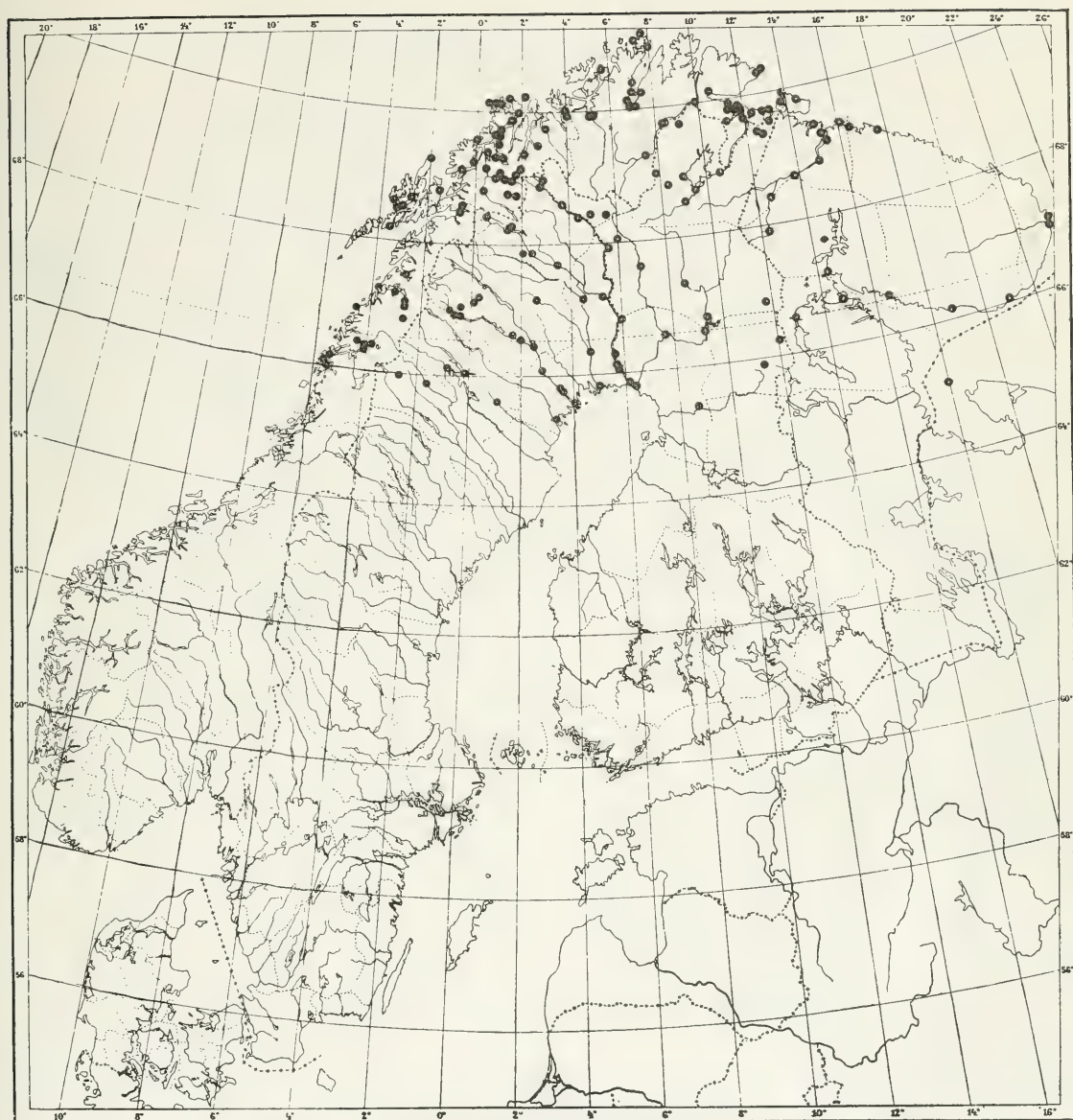




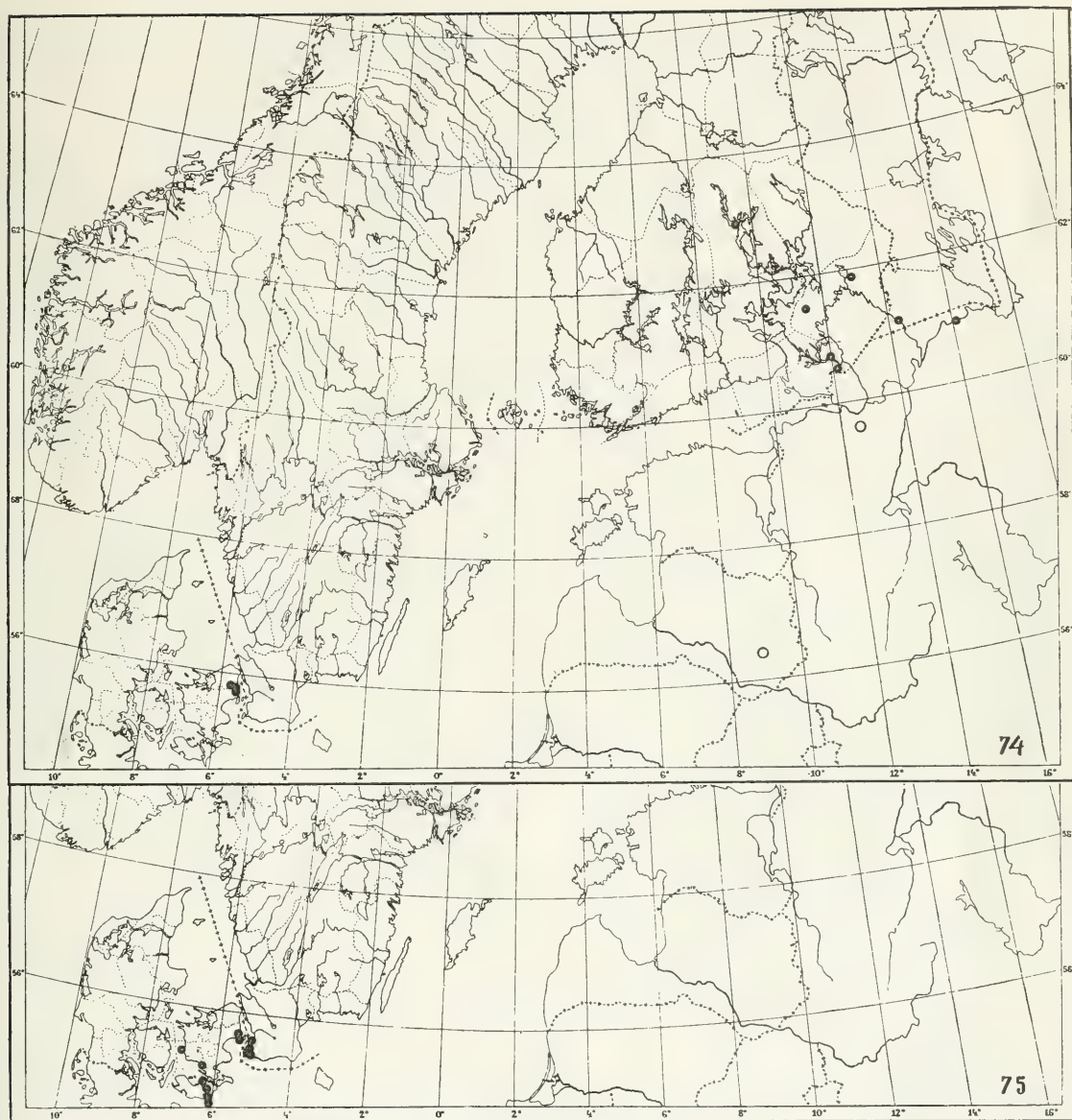






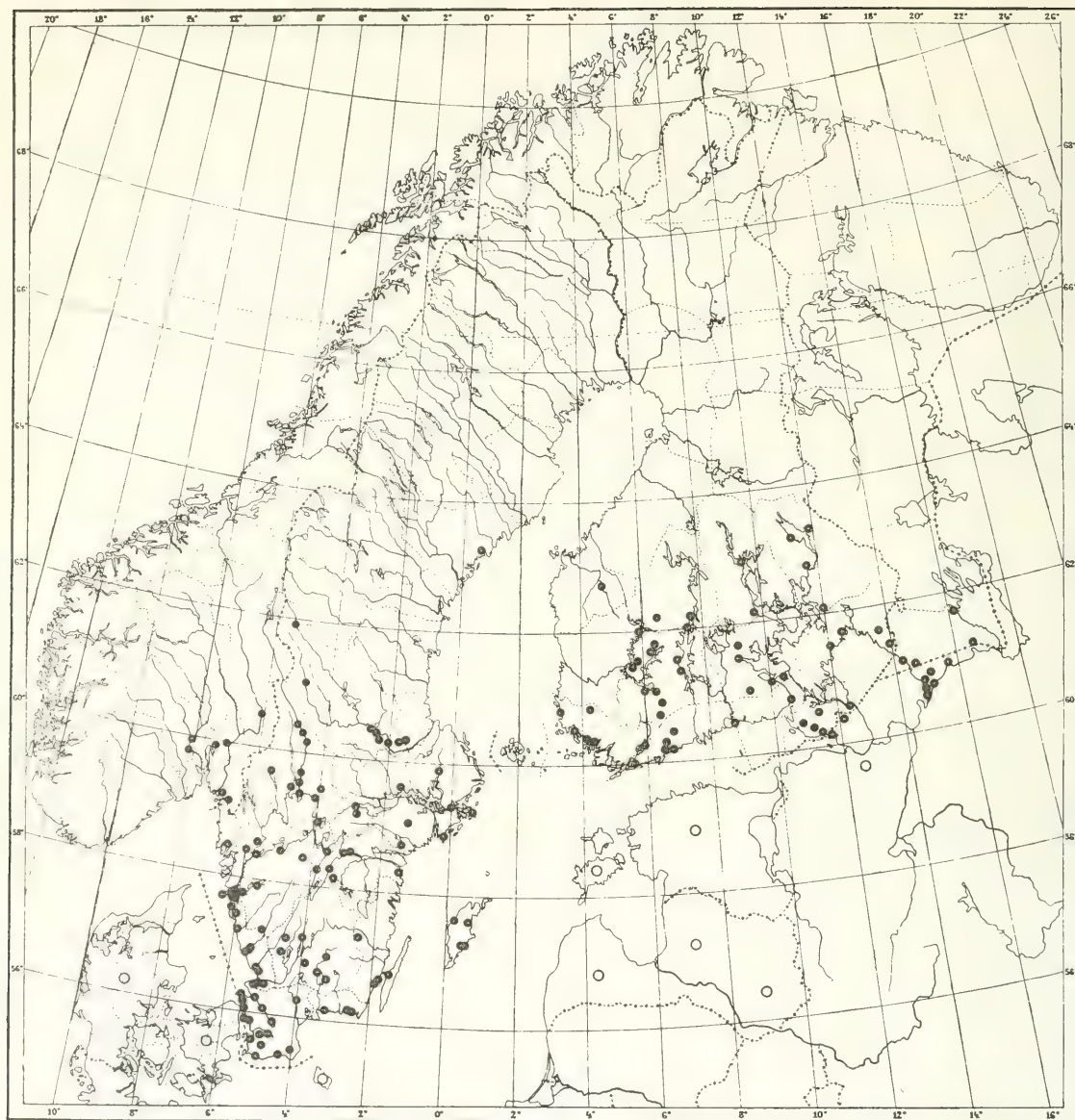


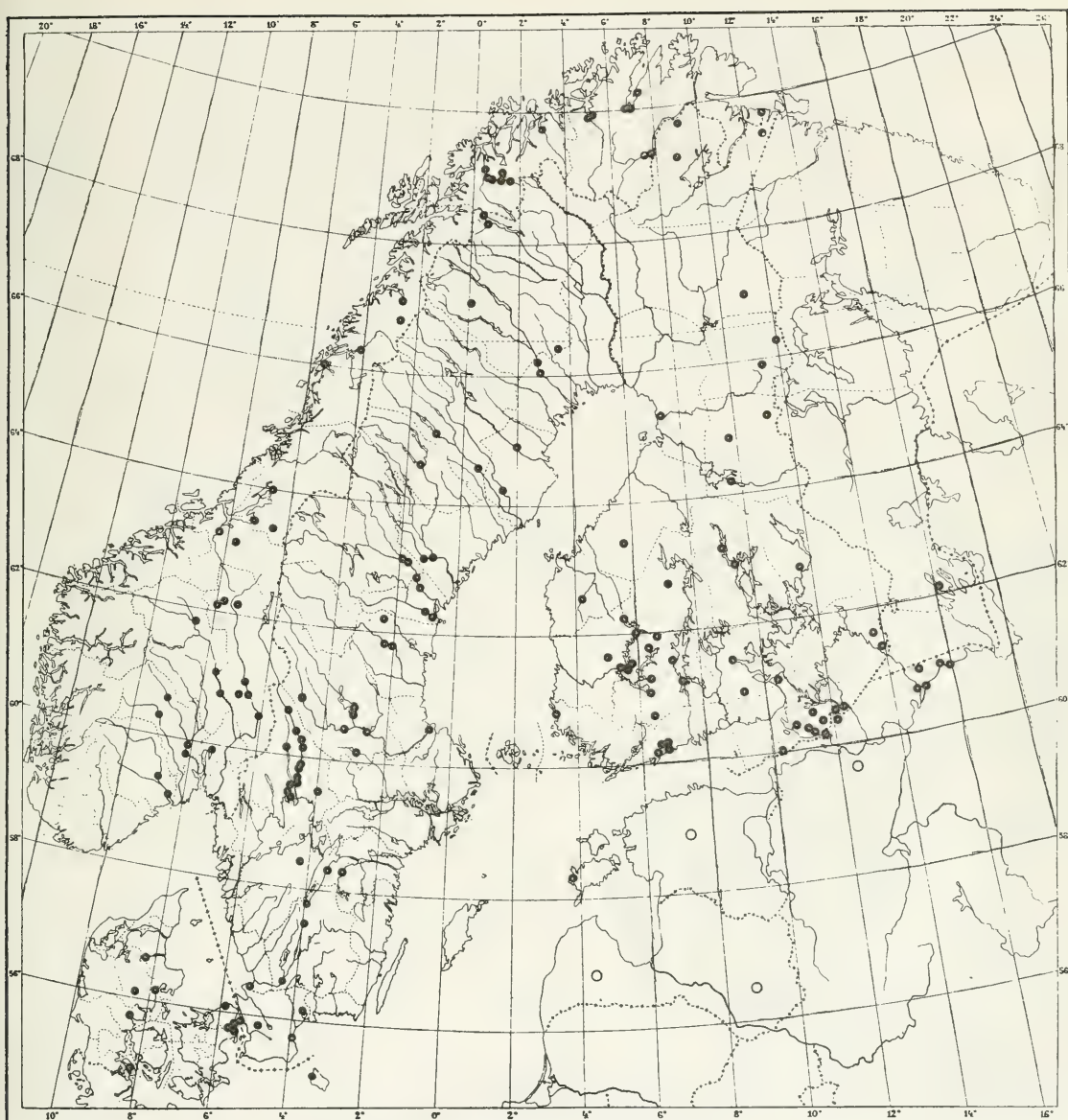


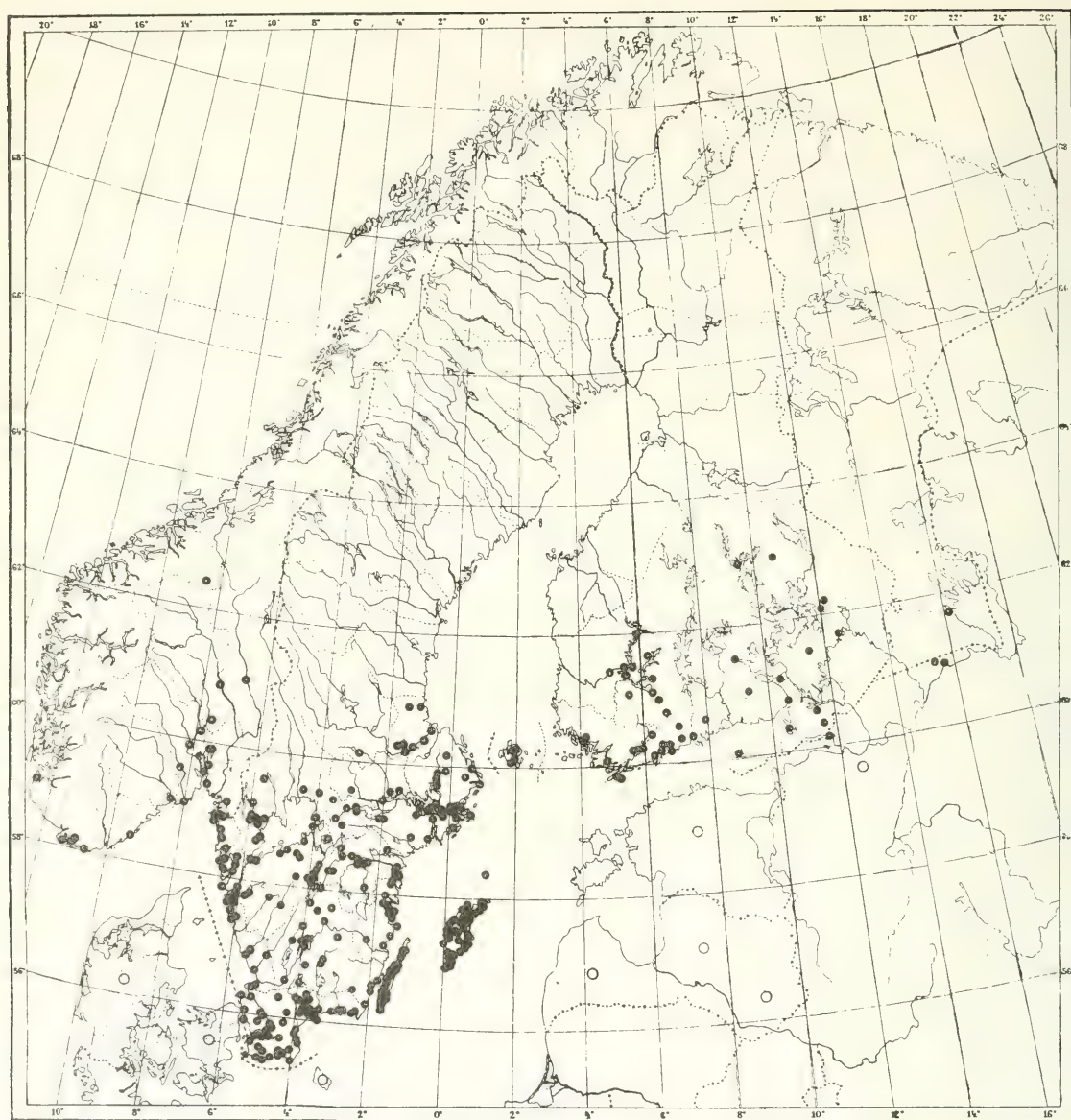


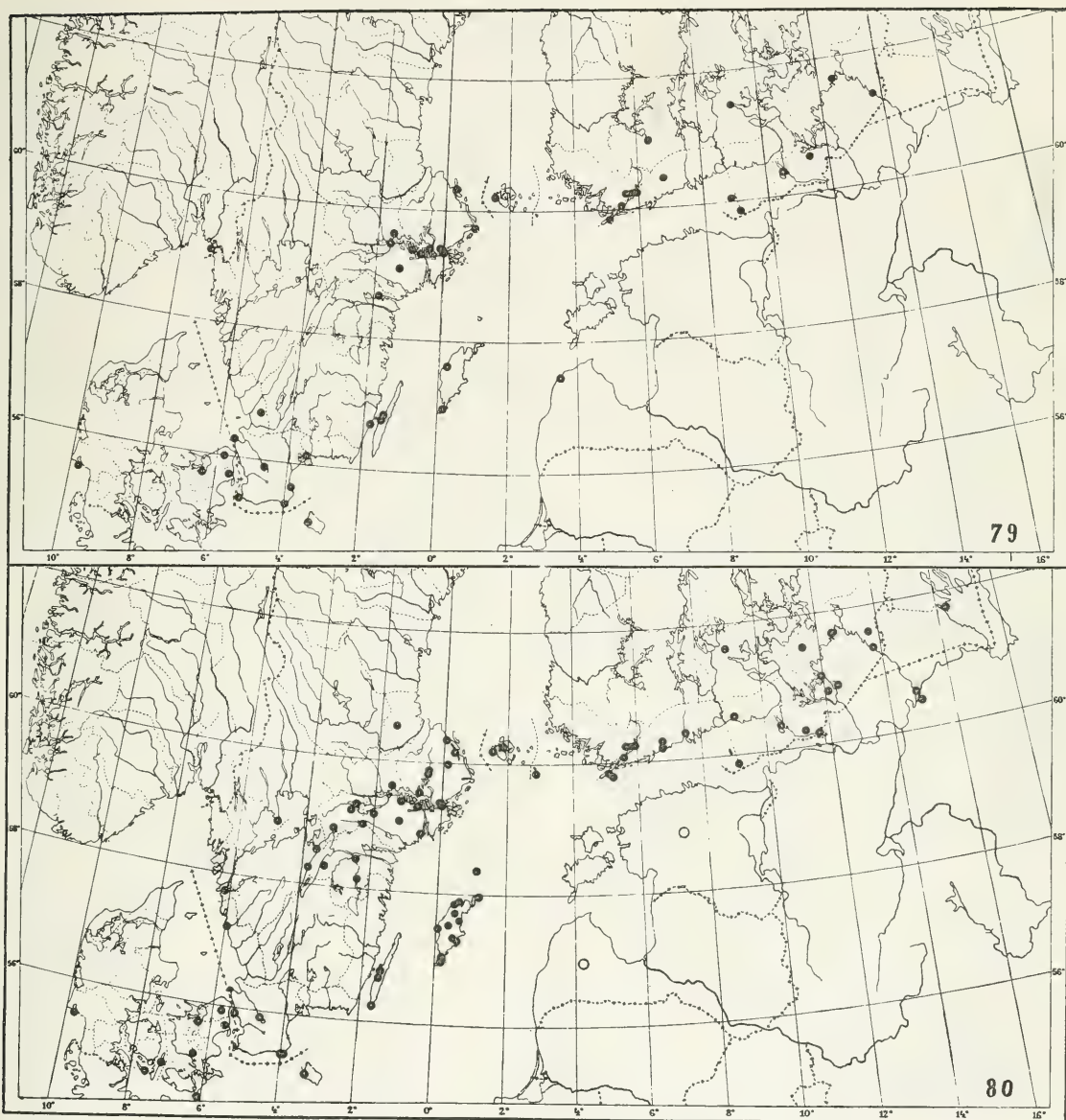
73

74. *Anisodactylus nemorivagus* Dft.75. *Anisodactylus poeciloides* Steph.



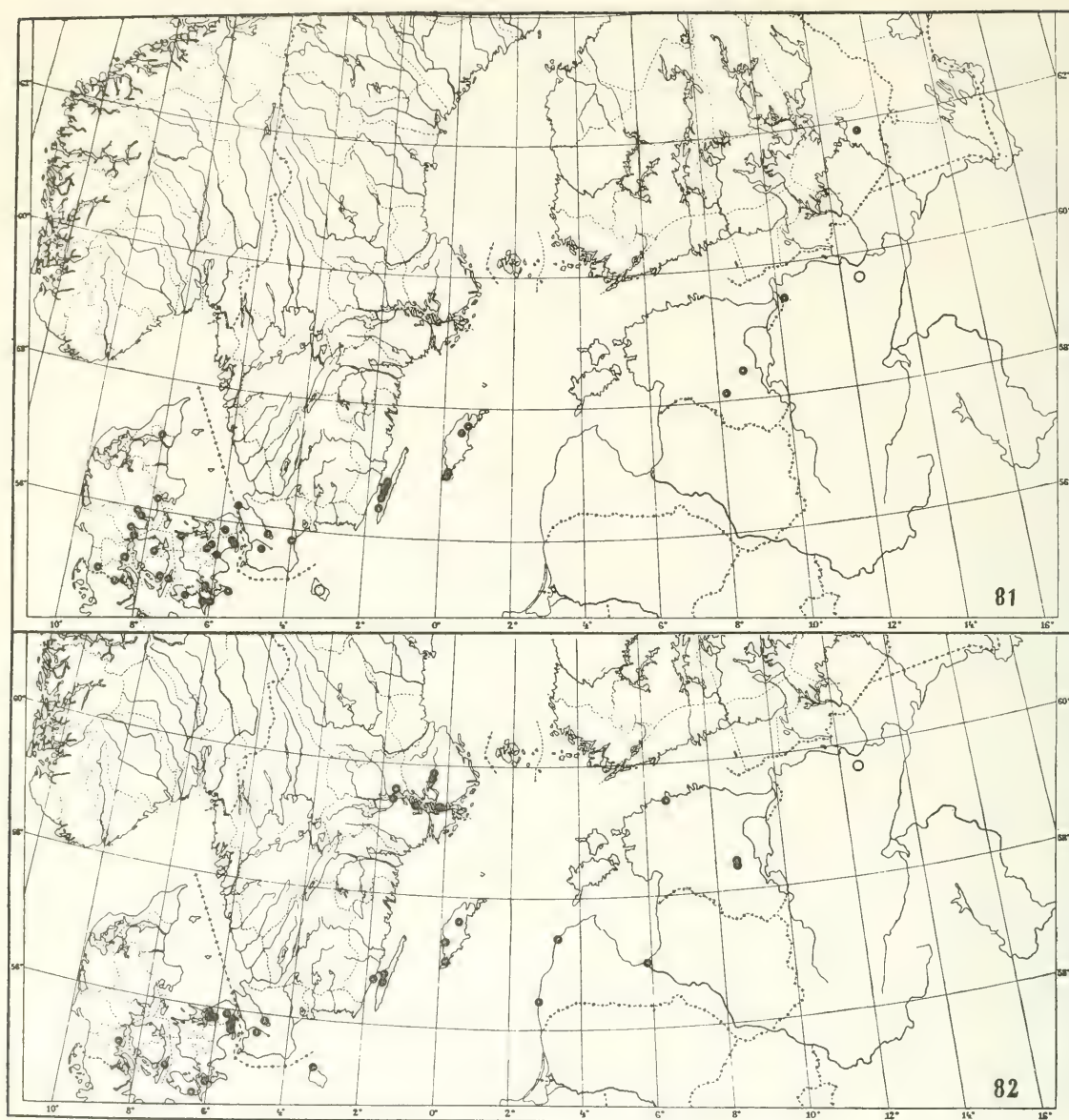




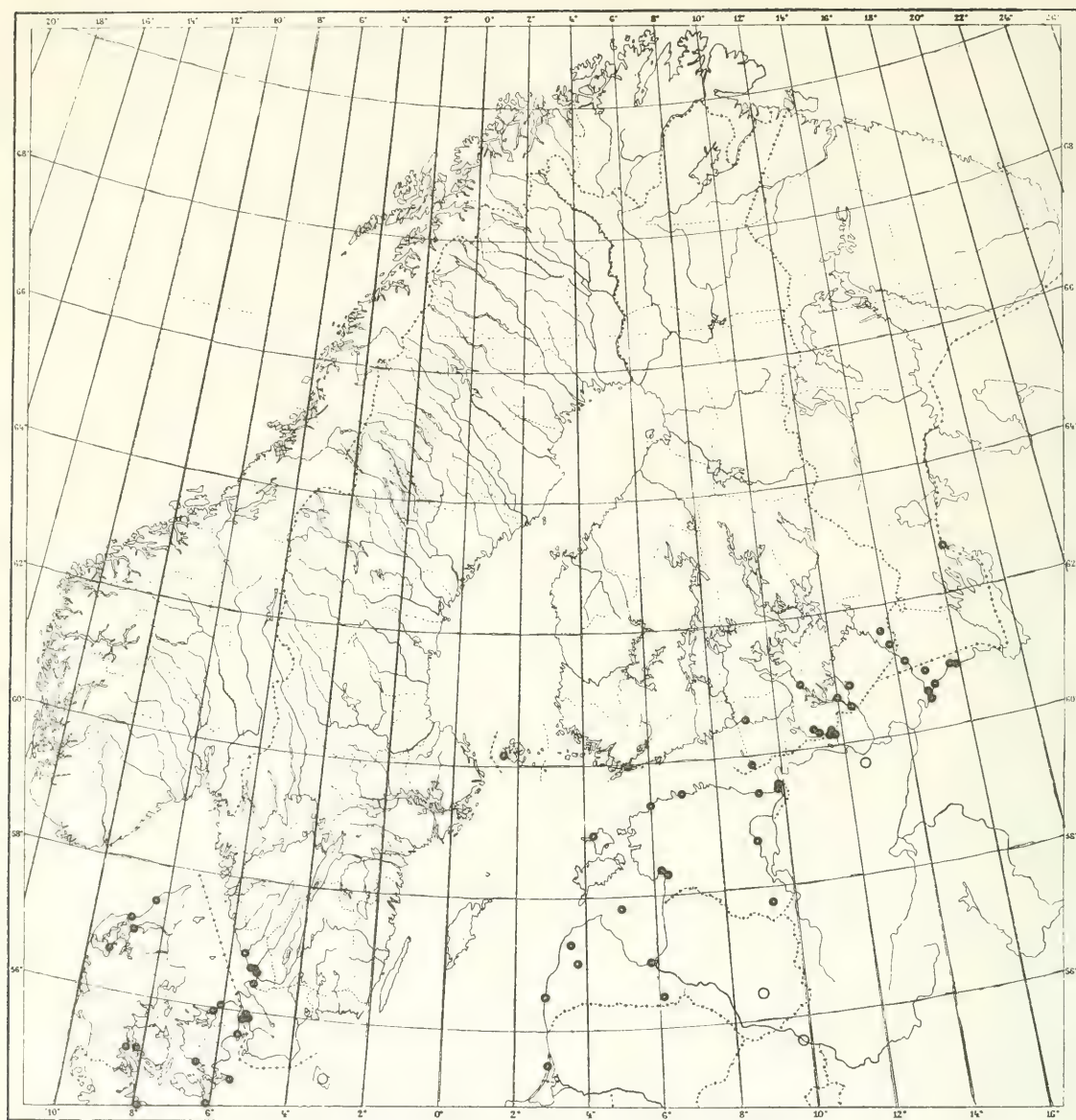


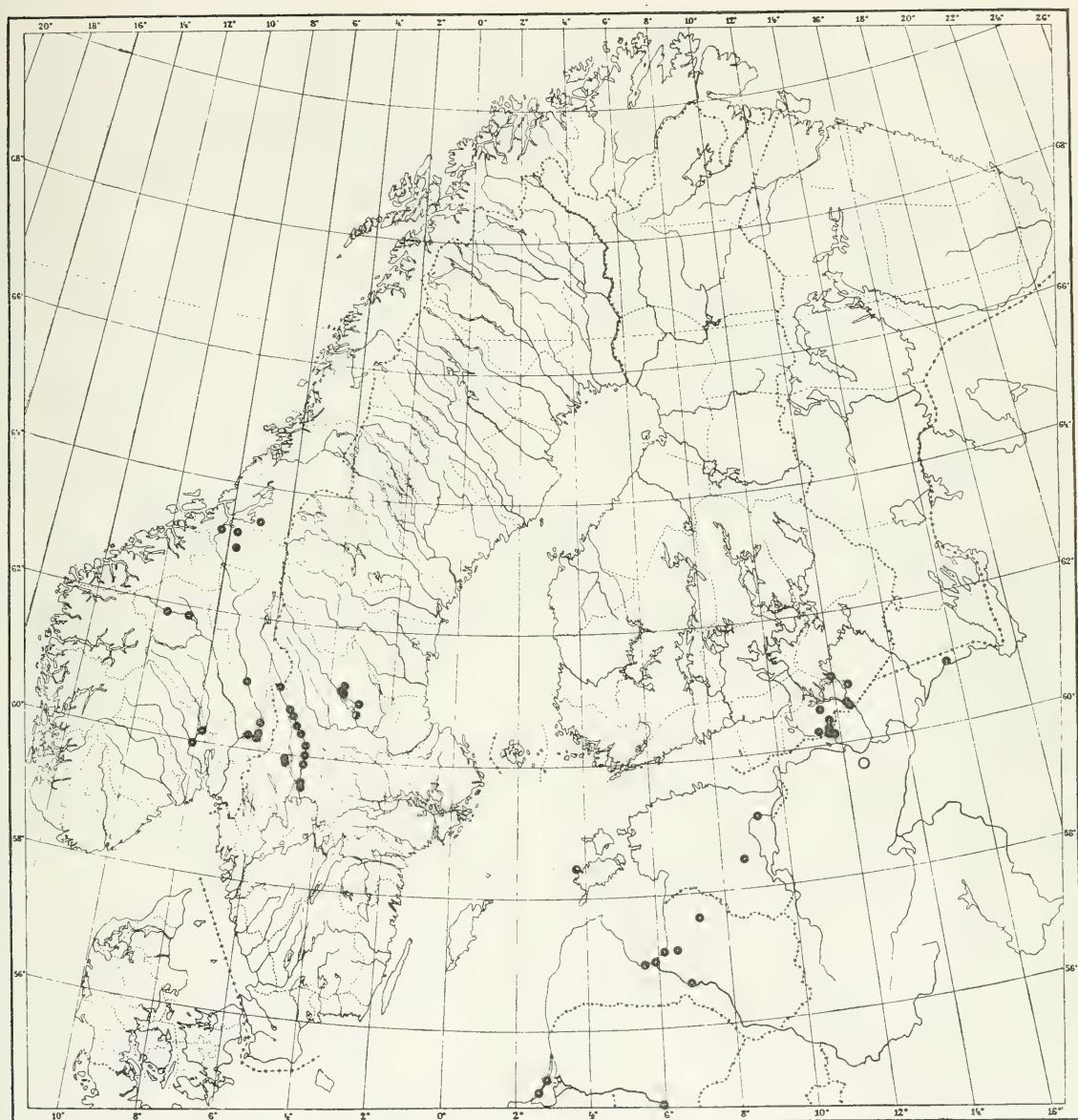
77

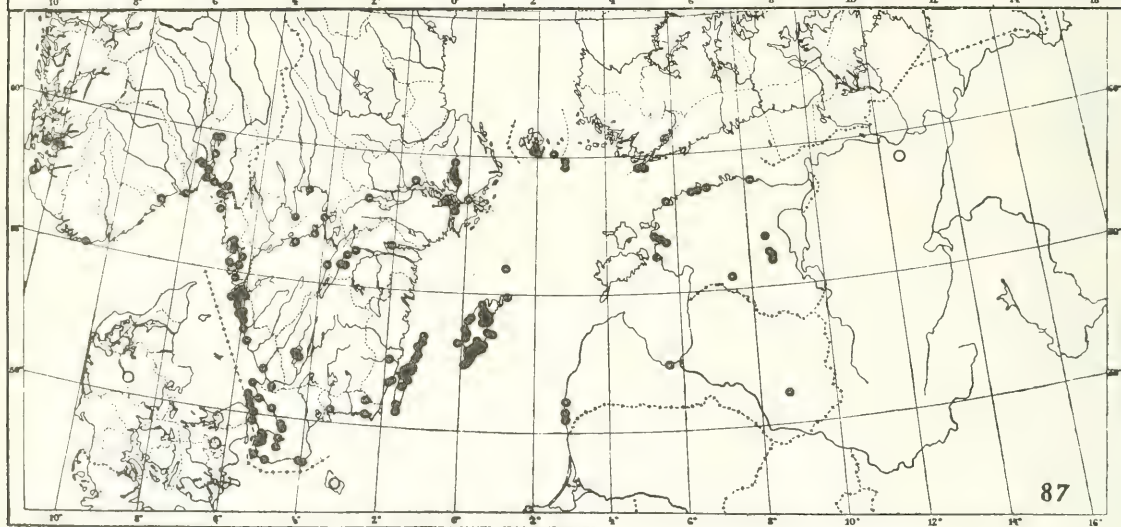
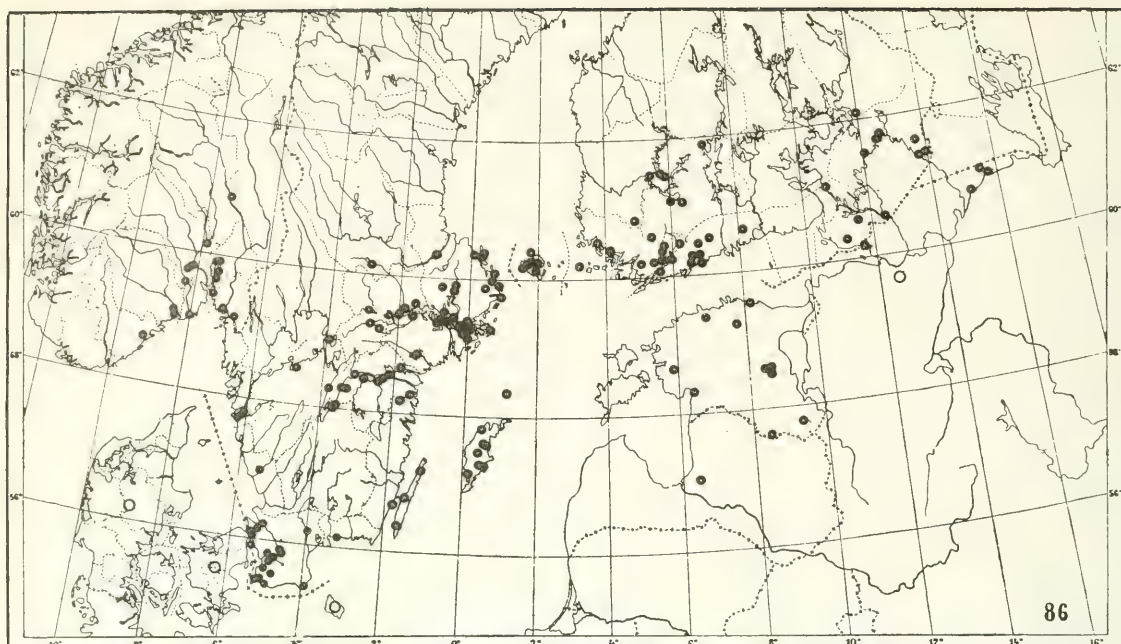
79. *Badister dilatatus* Chd. } Provisional maps.
 80. *Badister peltatus* Panz. }

81. *Badister sodalis* Dft.82. *Badister unipustulatus* Bon.



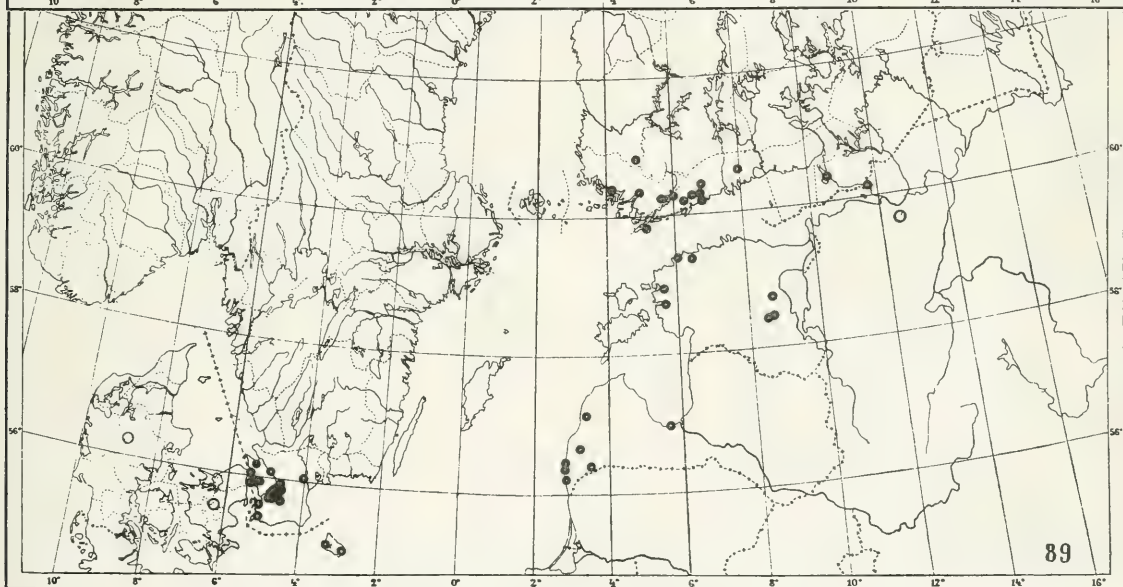
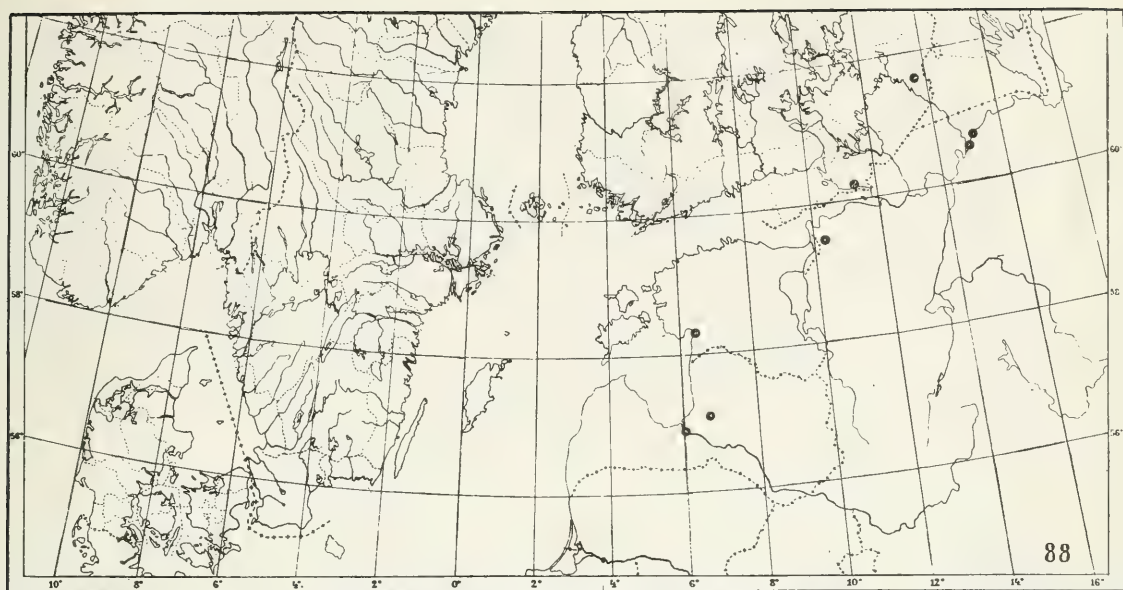






82

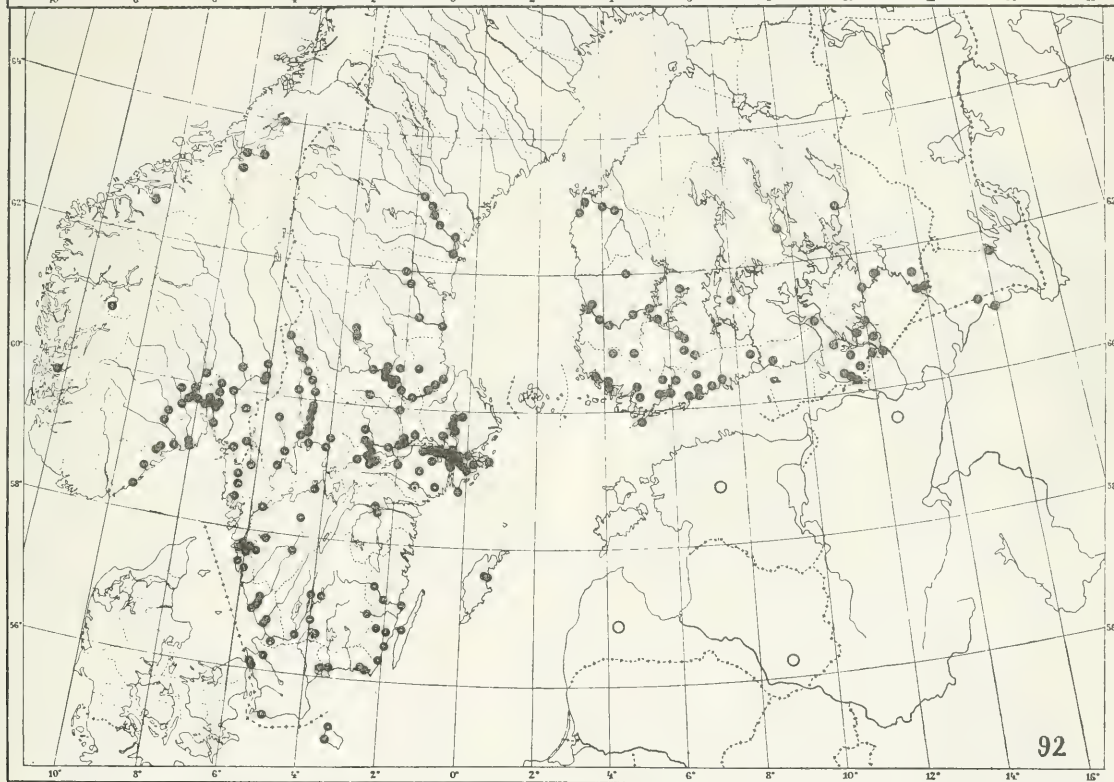
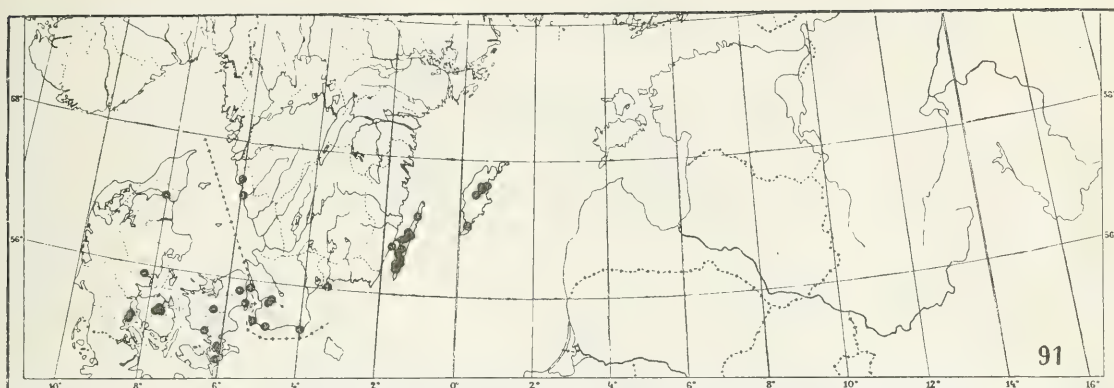
86. *Bembidion articulatum* Gyll.87. *Bembidion assimile* Gyll.

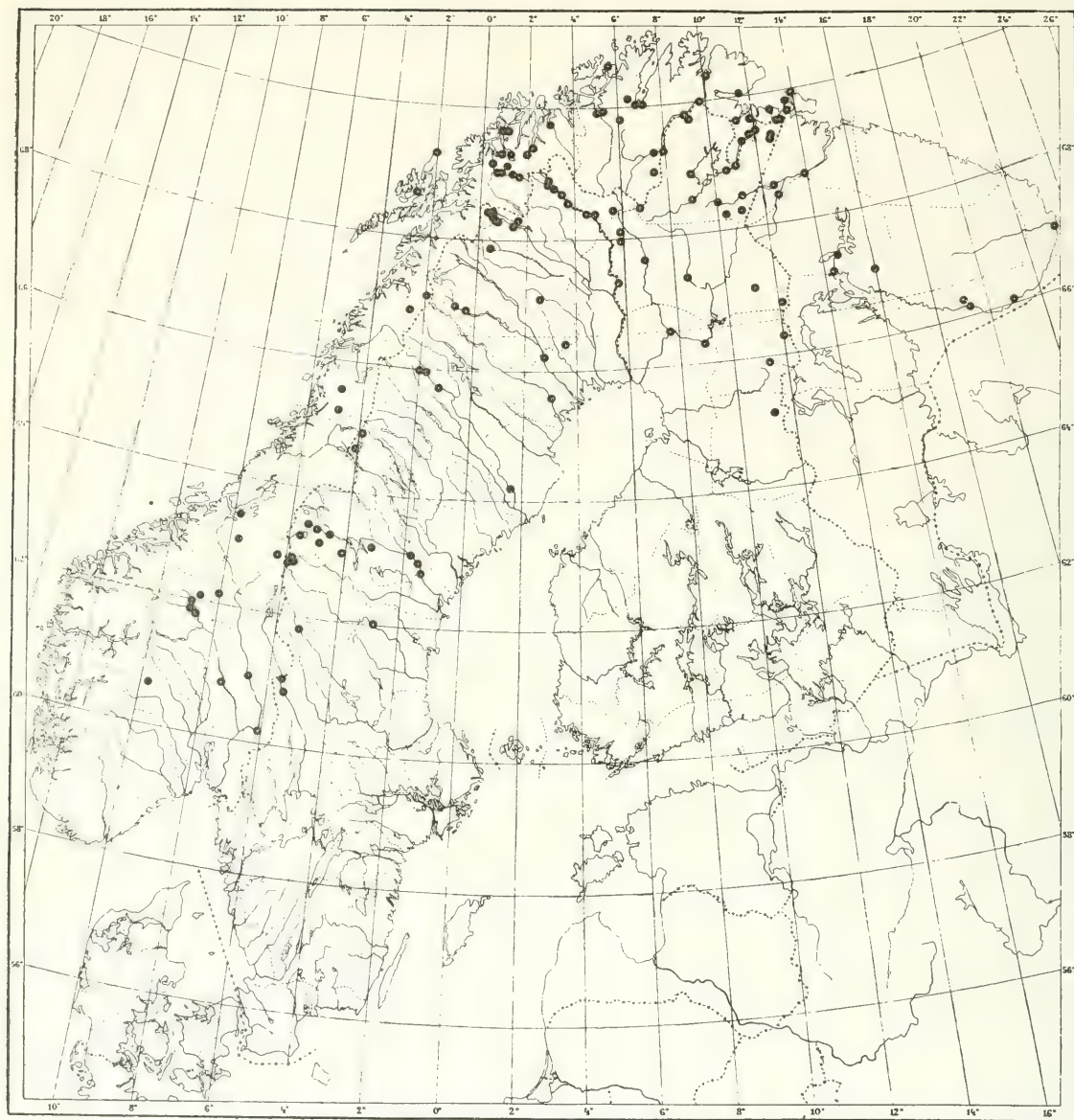


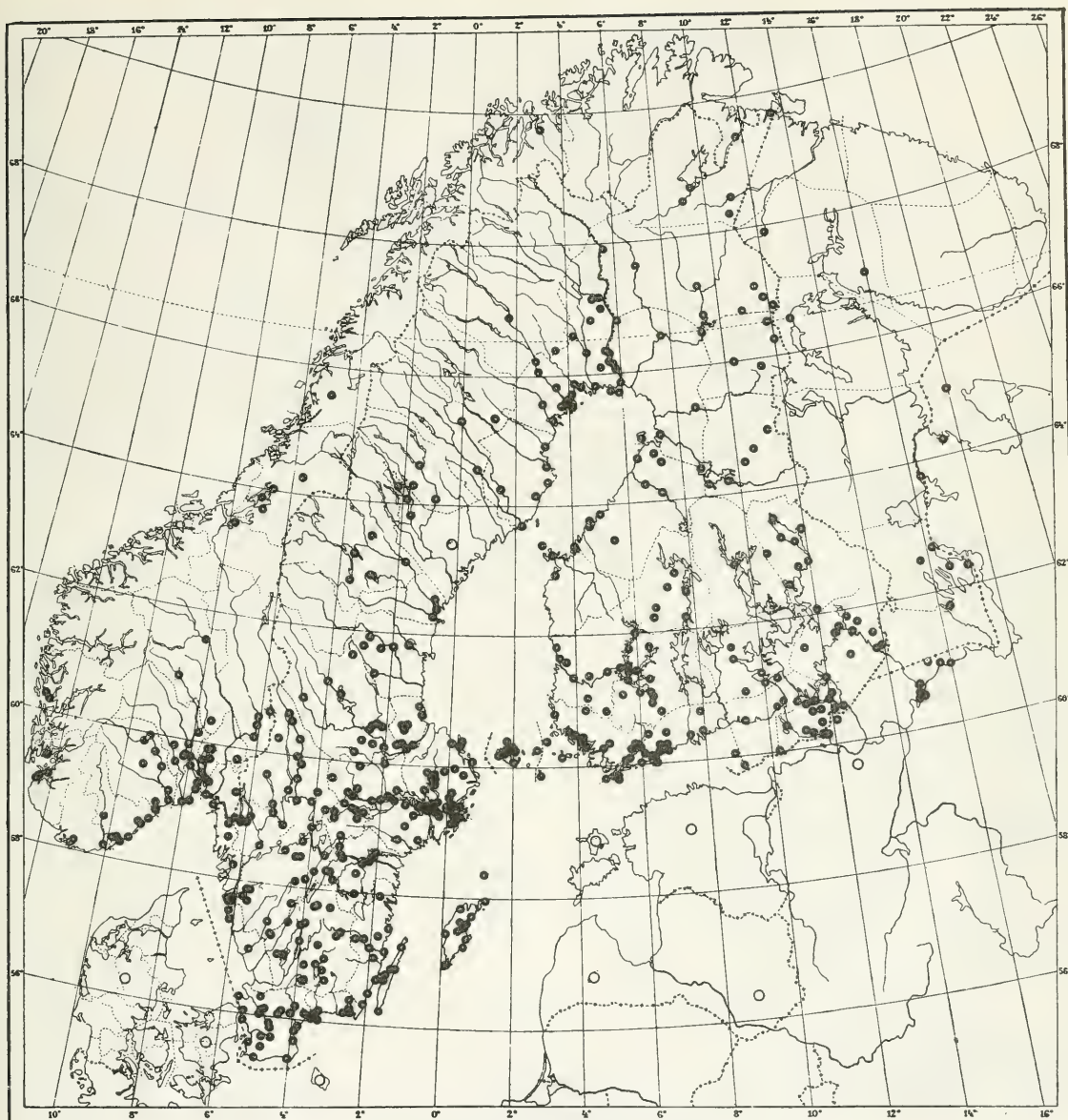
83

88. *Bembidion azurescens* Wagn.89. *Bembidion biguttatum* Fbr.

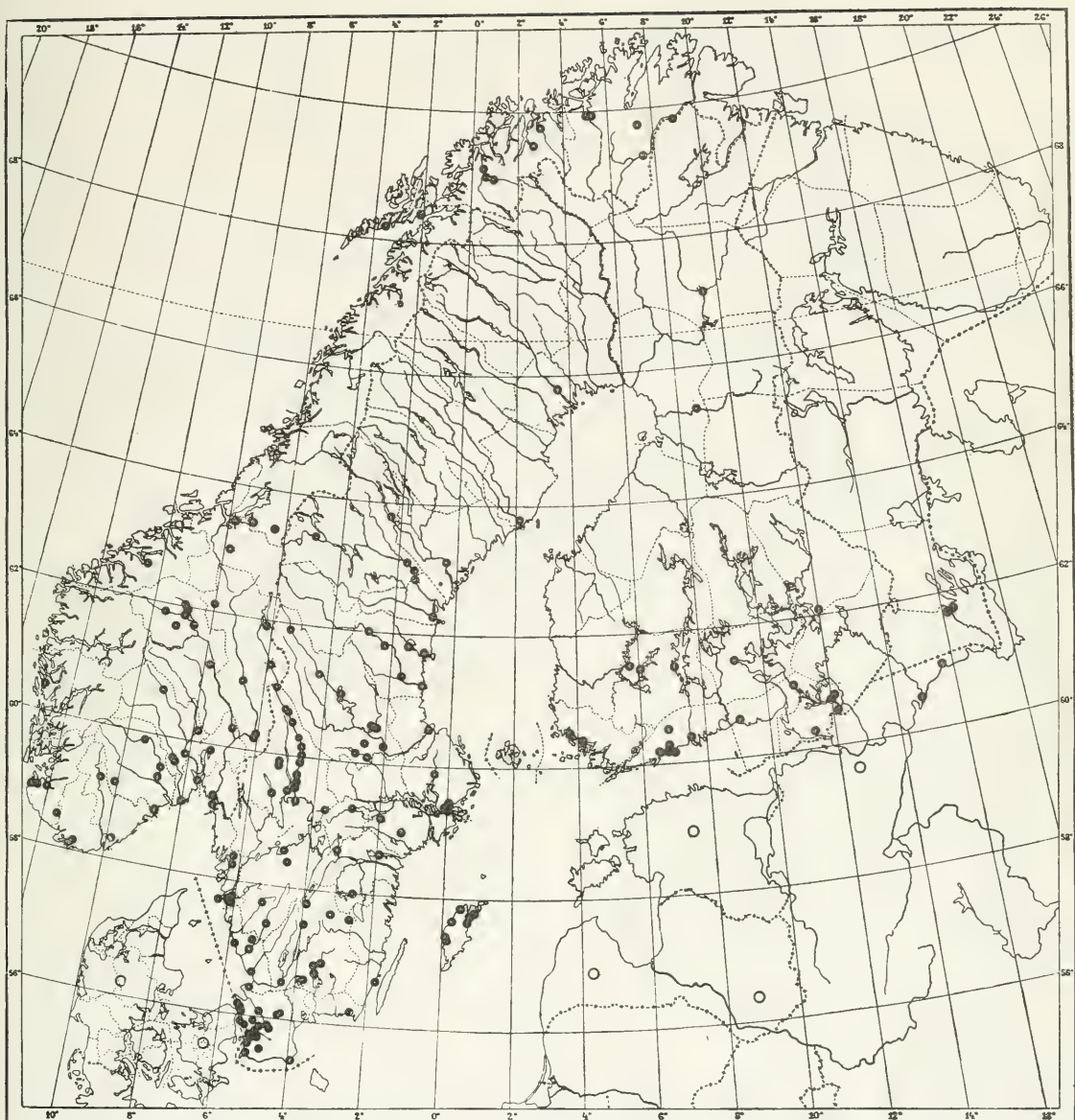


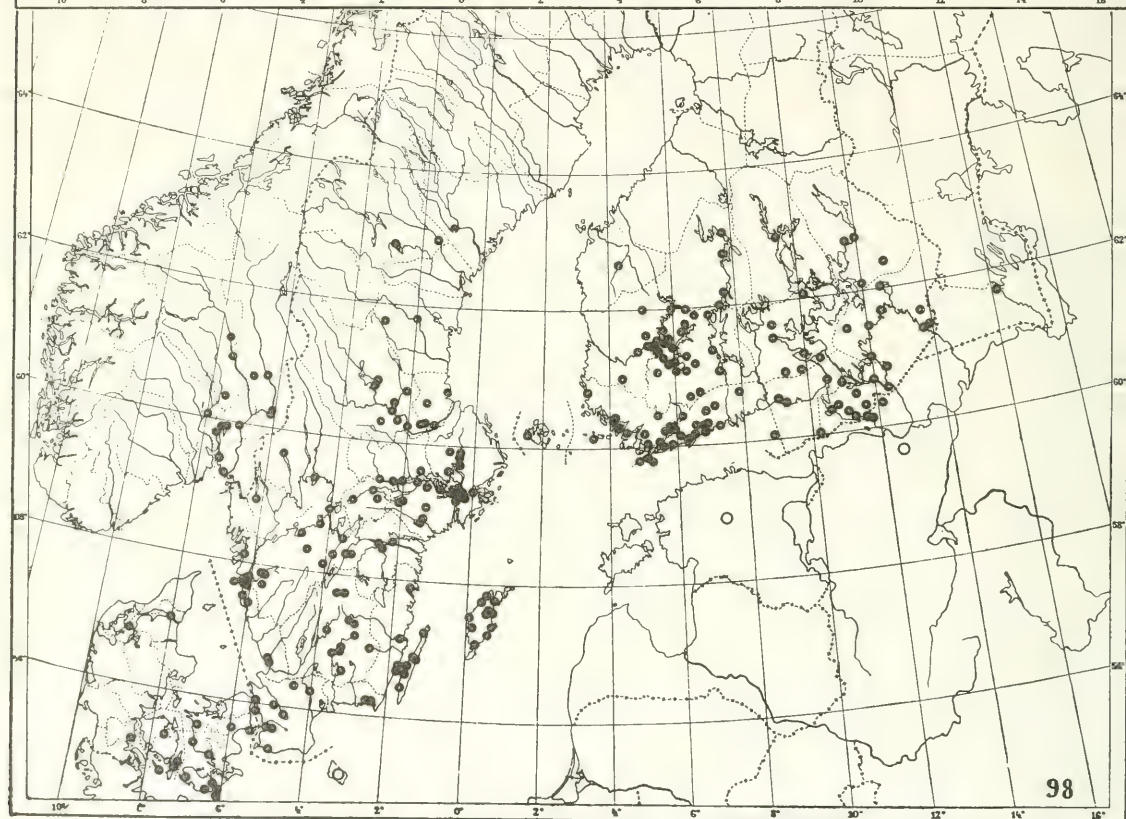
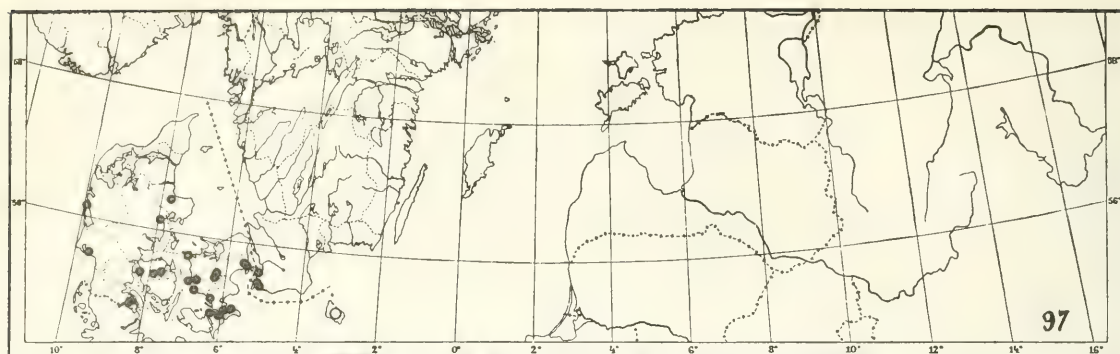








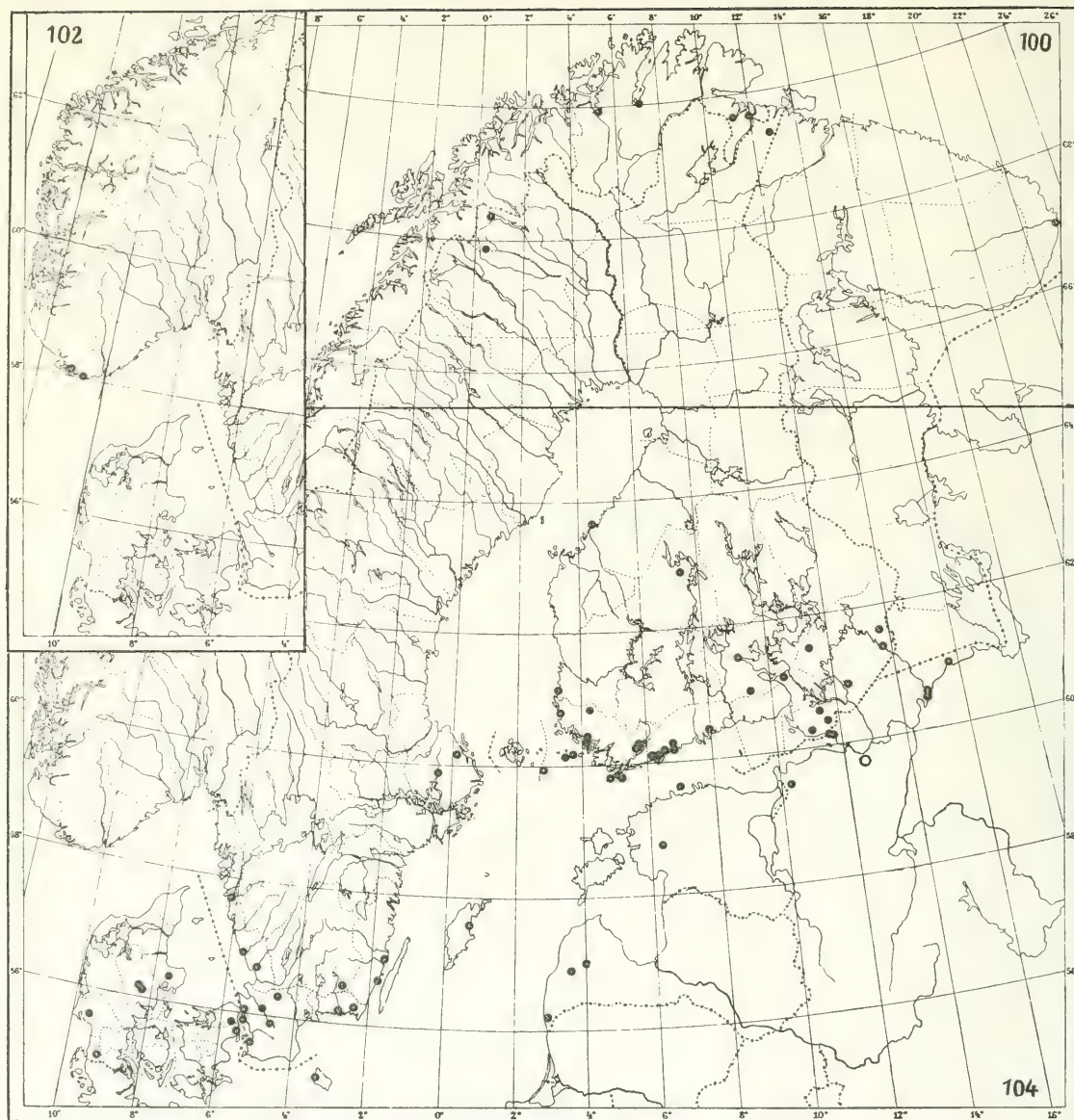




90

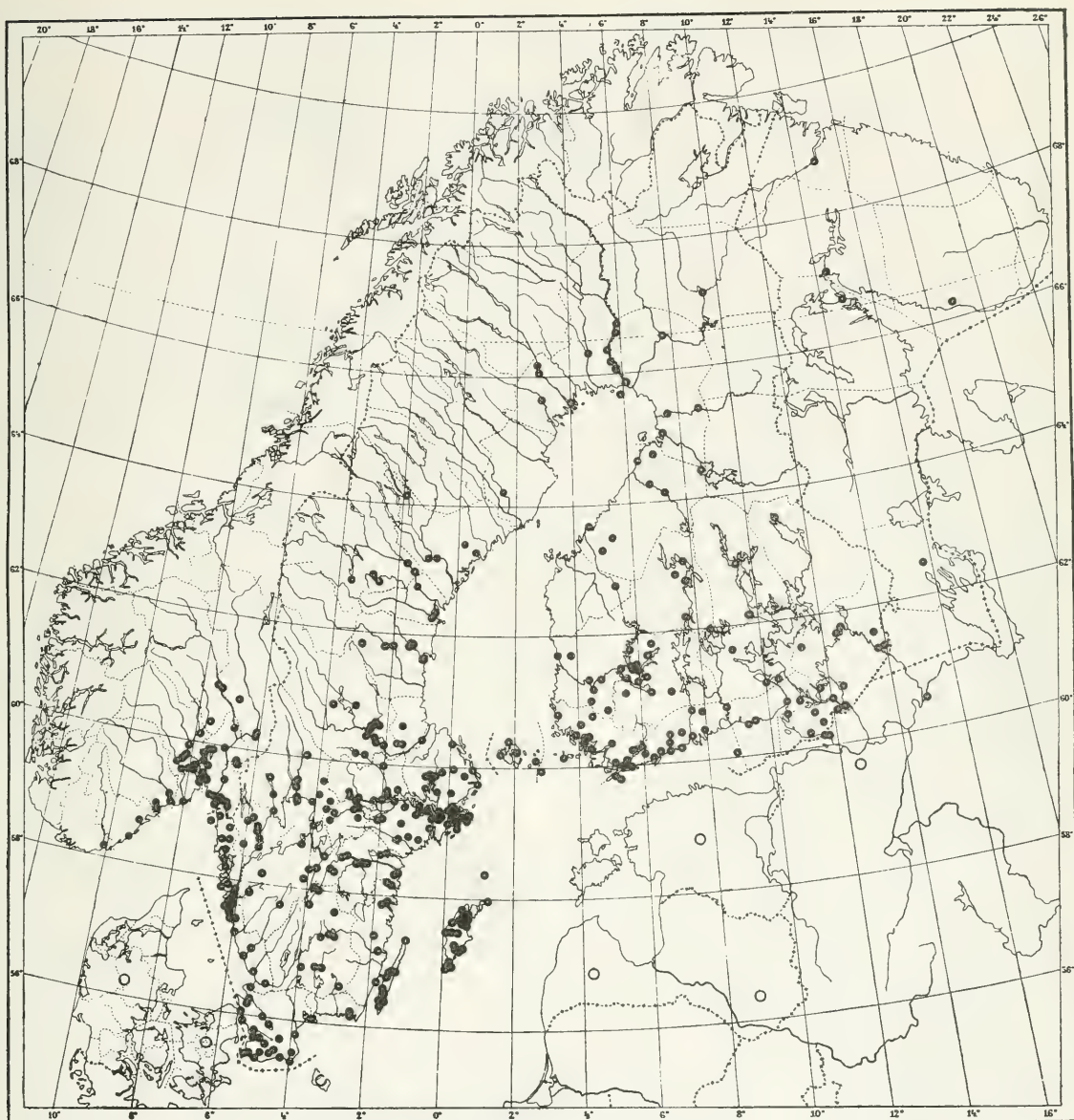
97. *Bembidion fumigatum* Dft.98. *Bembidion gilvipes* Sturm.





92

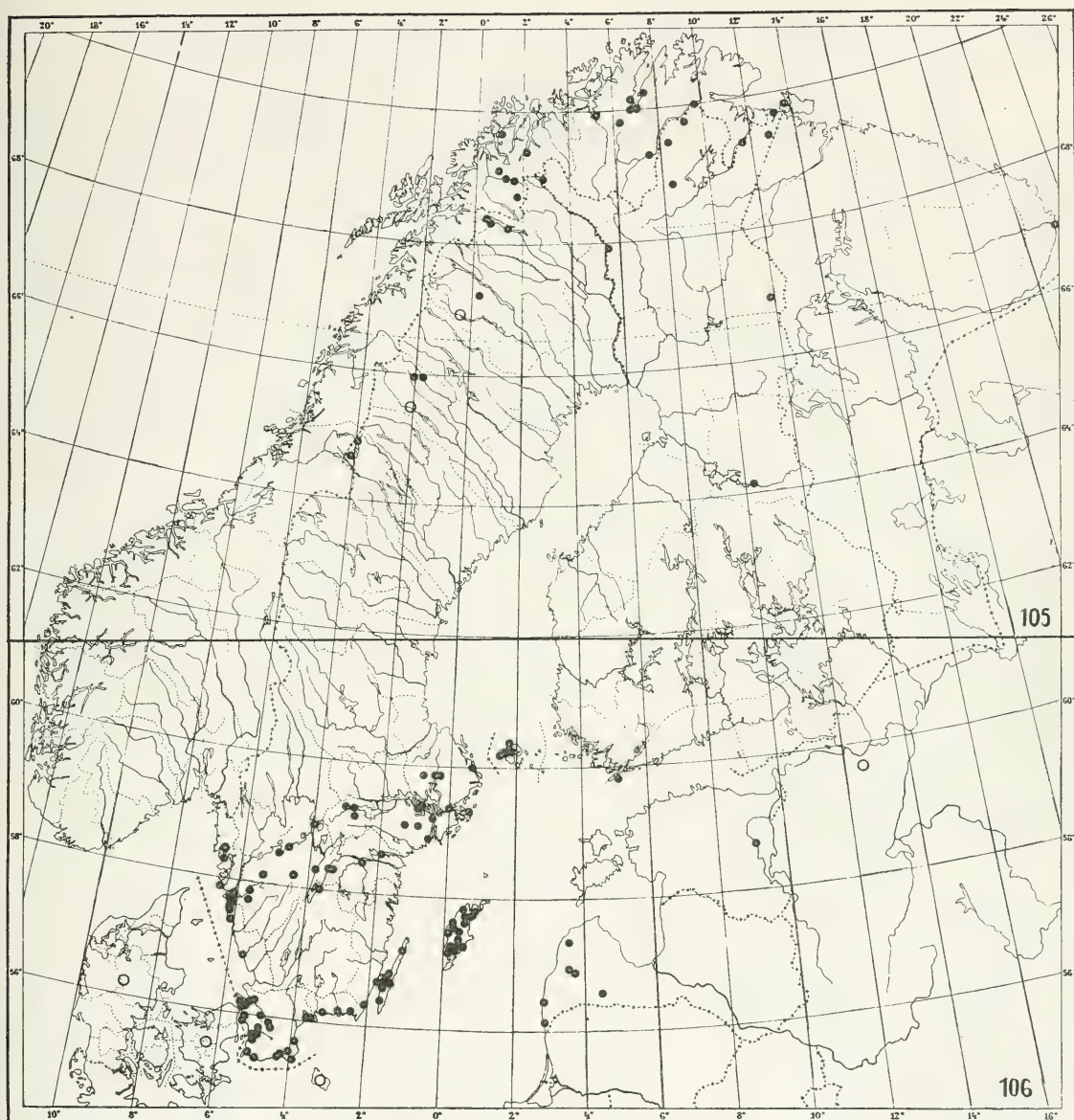
100. *Bembidion grapeioides* Munst.(101. *Bembidion guttula*, see p. 87.)102. *Bembidion harpaloides* Serv.(103. *Bembidion hasti*, see p. 88.)104. *Bembidion humerale* Sturm.





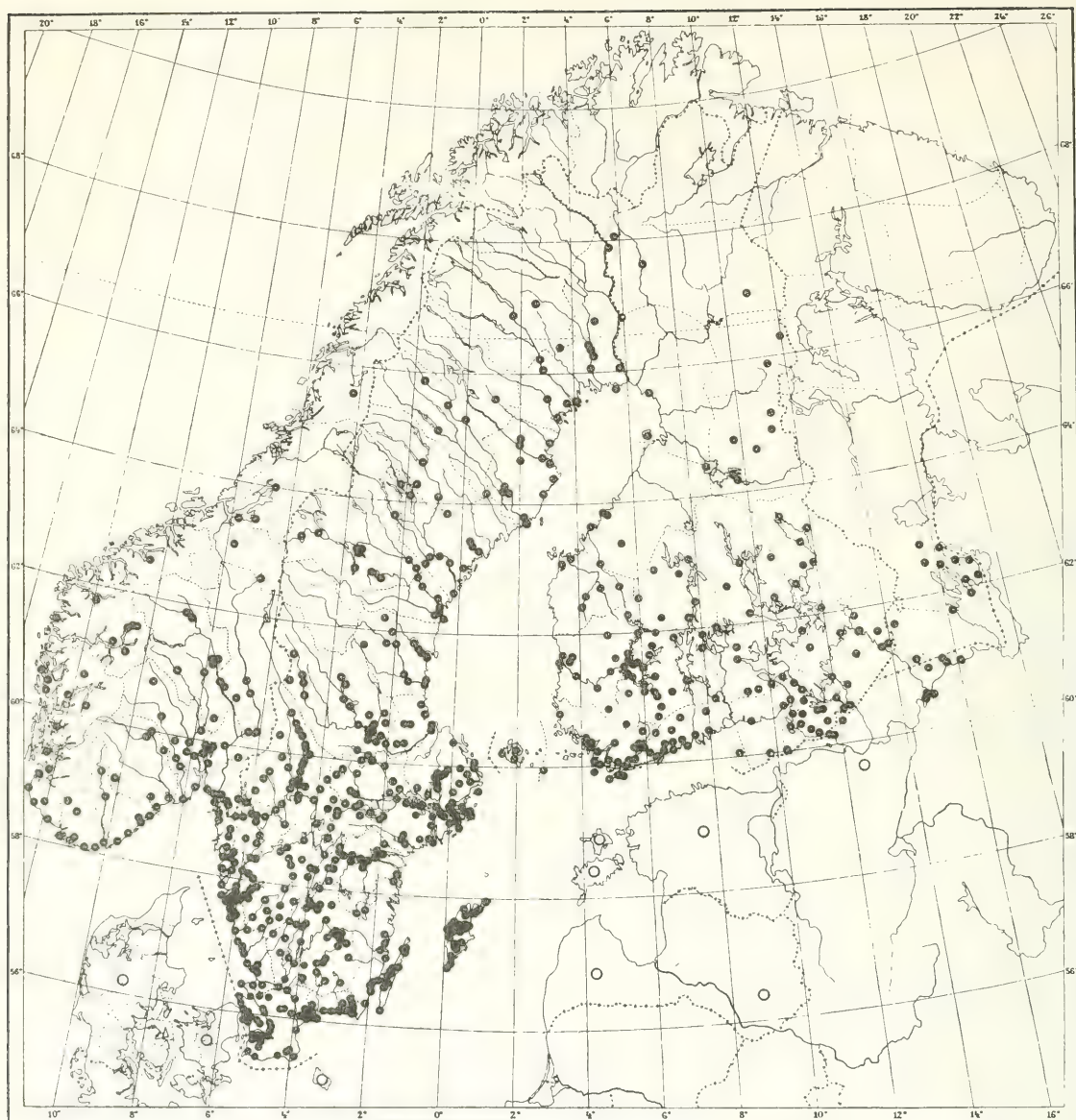
94

103. *Bembidion hasti* C.R. Sahlb.
 (104. *Bembidion humerale*, see No. 100.)



95

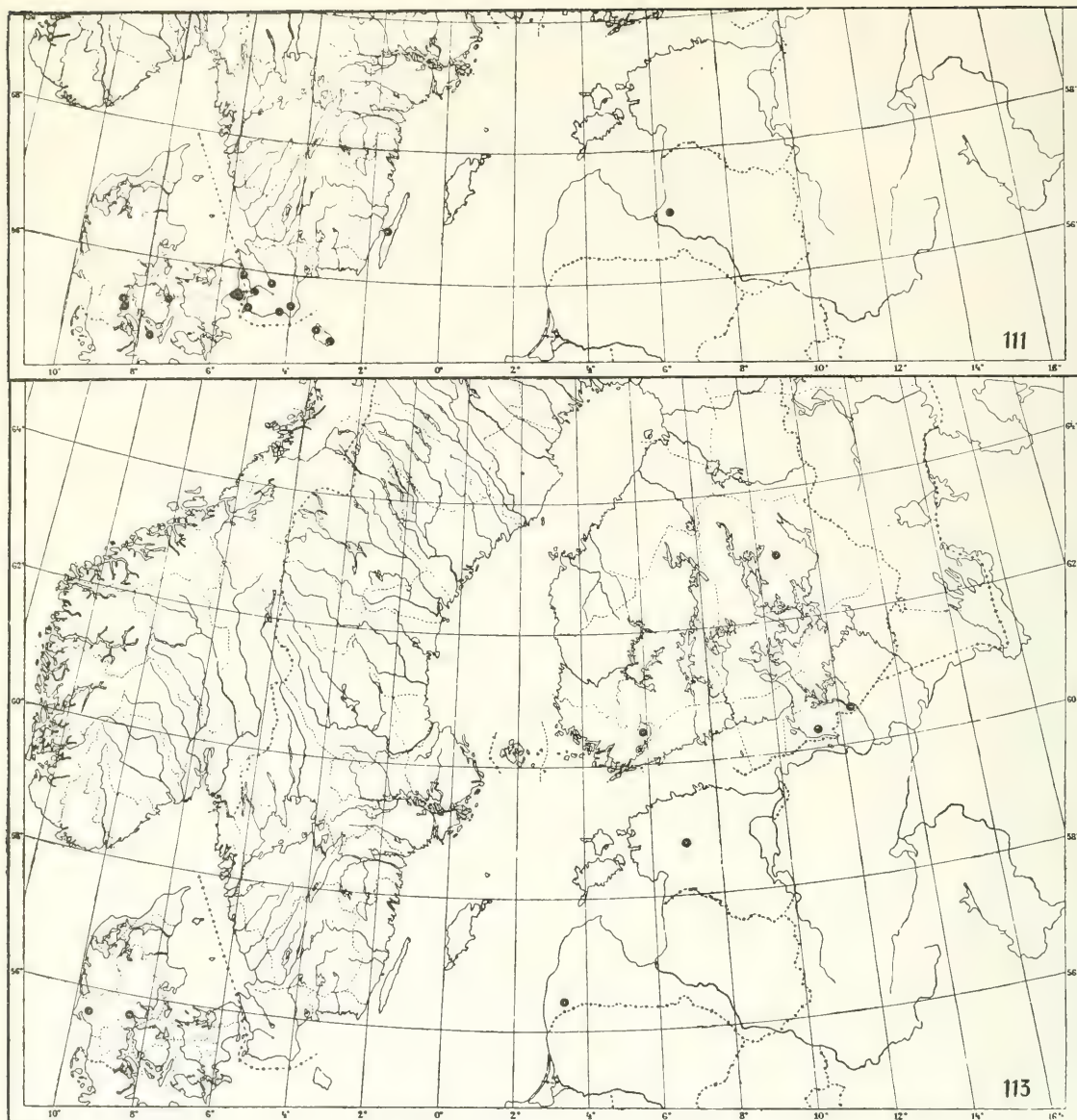
105. *Bembidion hyperboraeorum* Munst.106. *Bembidion illigeri* Net.





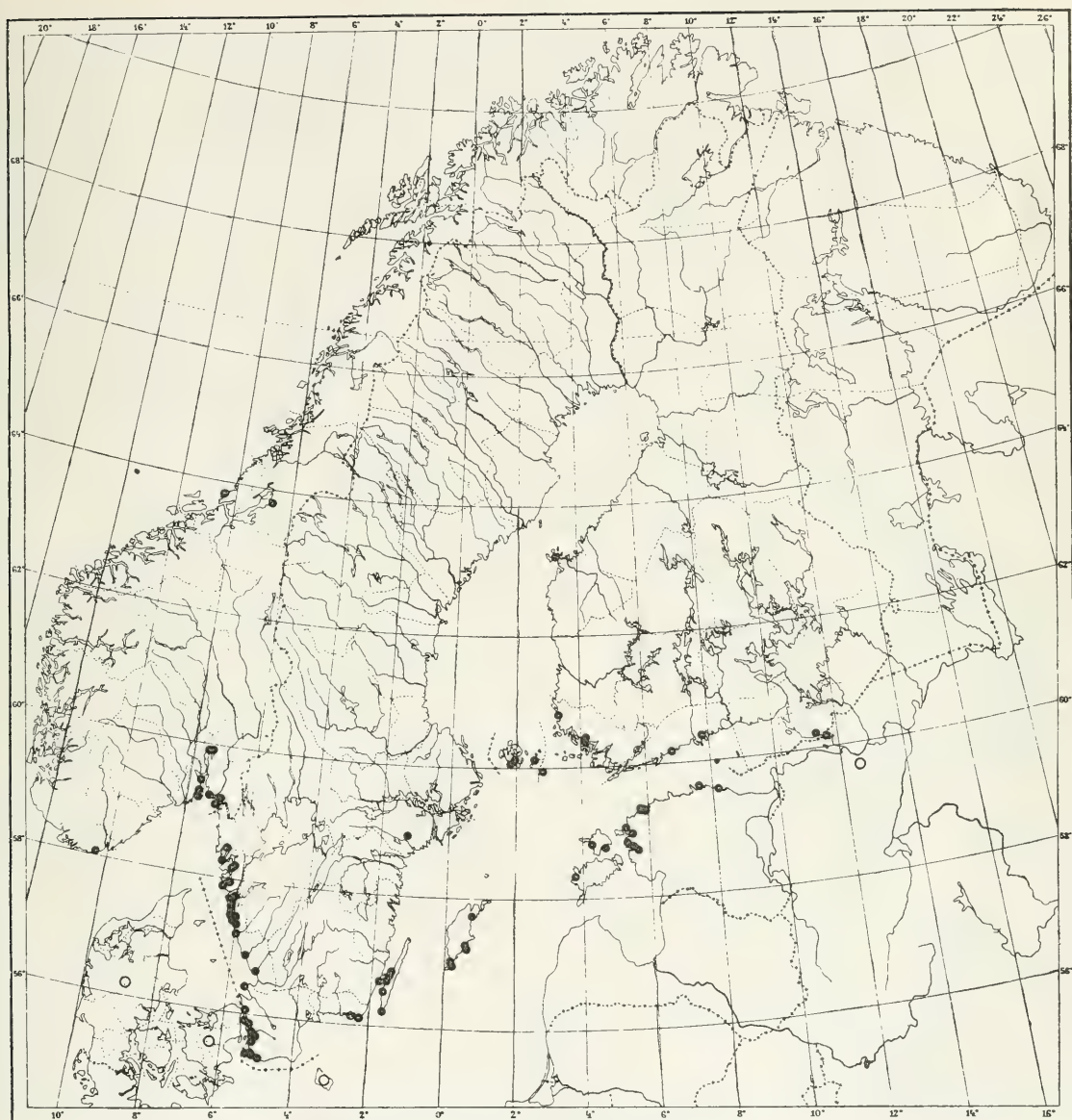






100

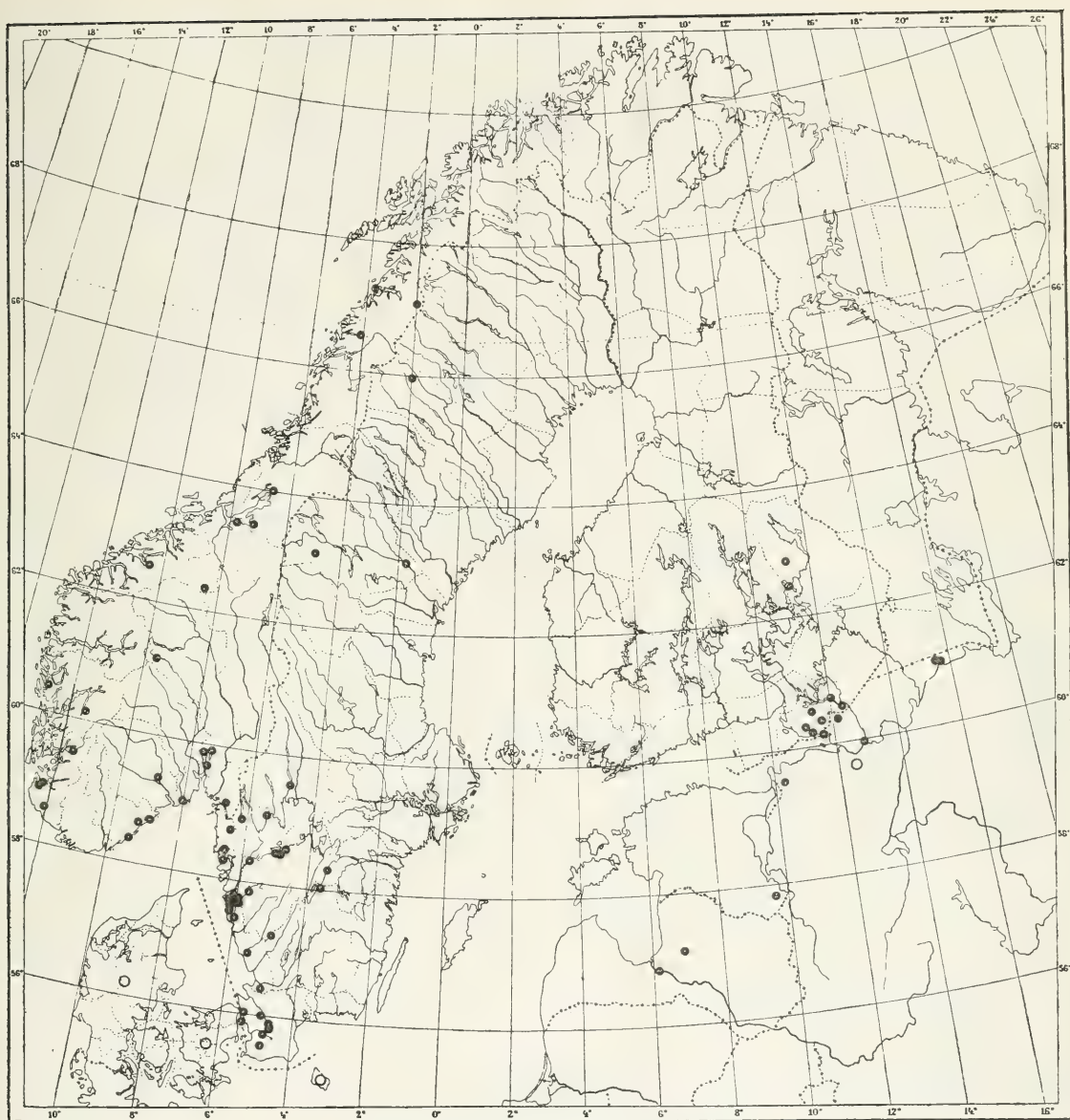
111. *Bembidion lunulatum* G.-F.(112. *Bembidion minimum*, see p. 95.)113. *Bembidion monticola* Sturm.

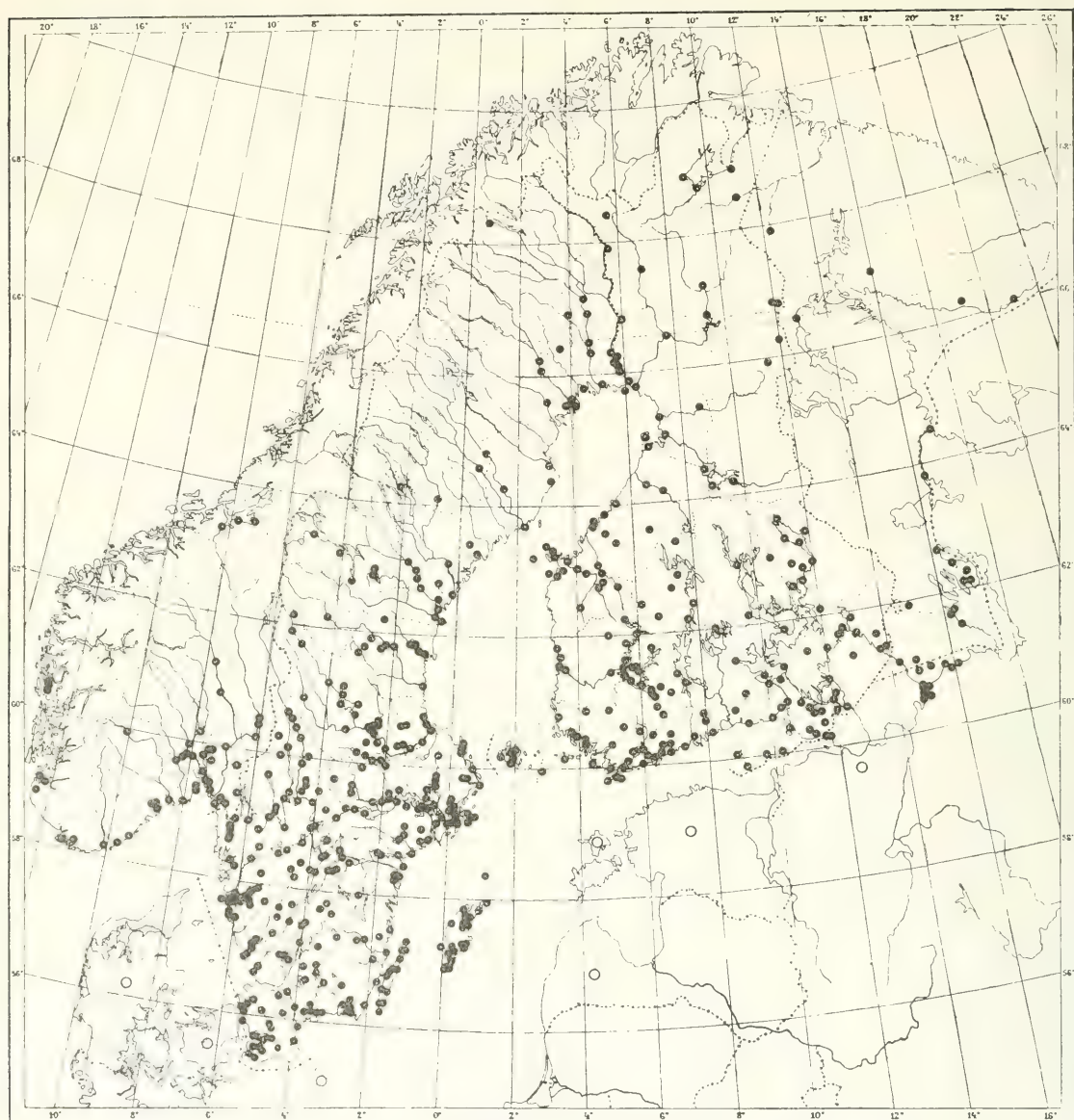


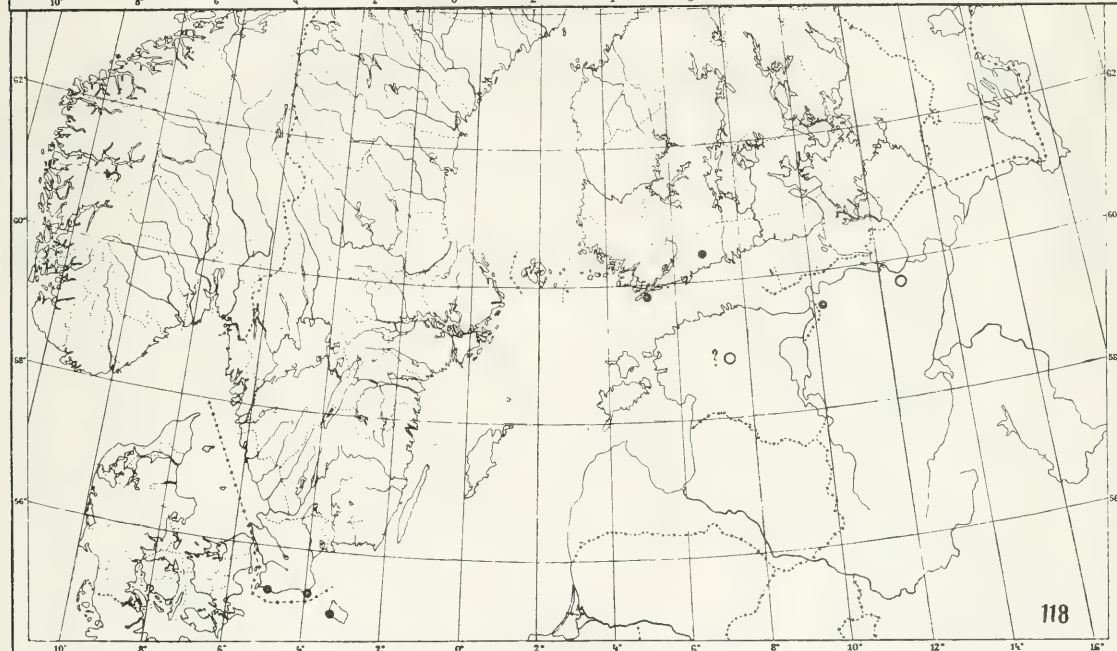
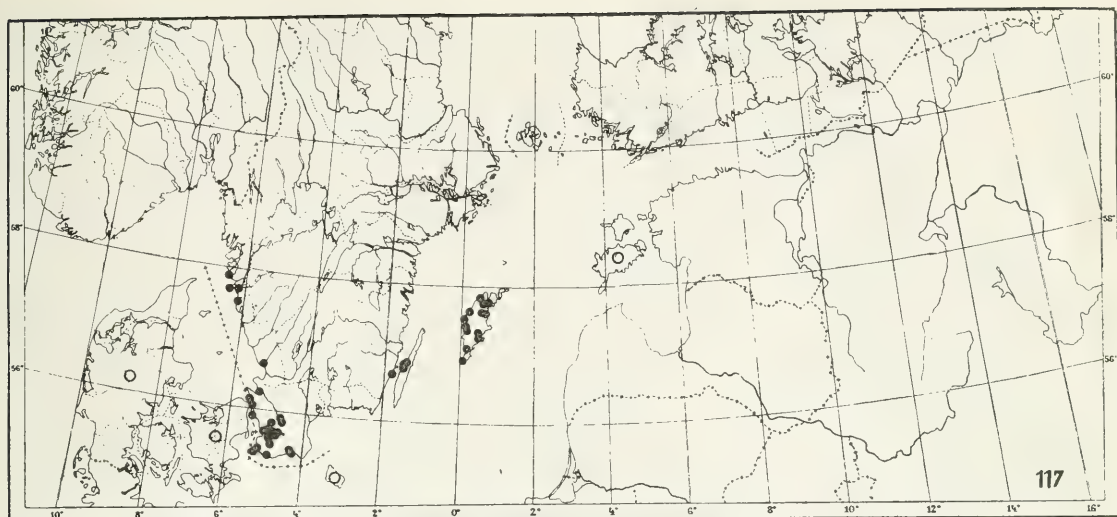
101

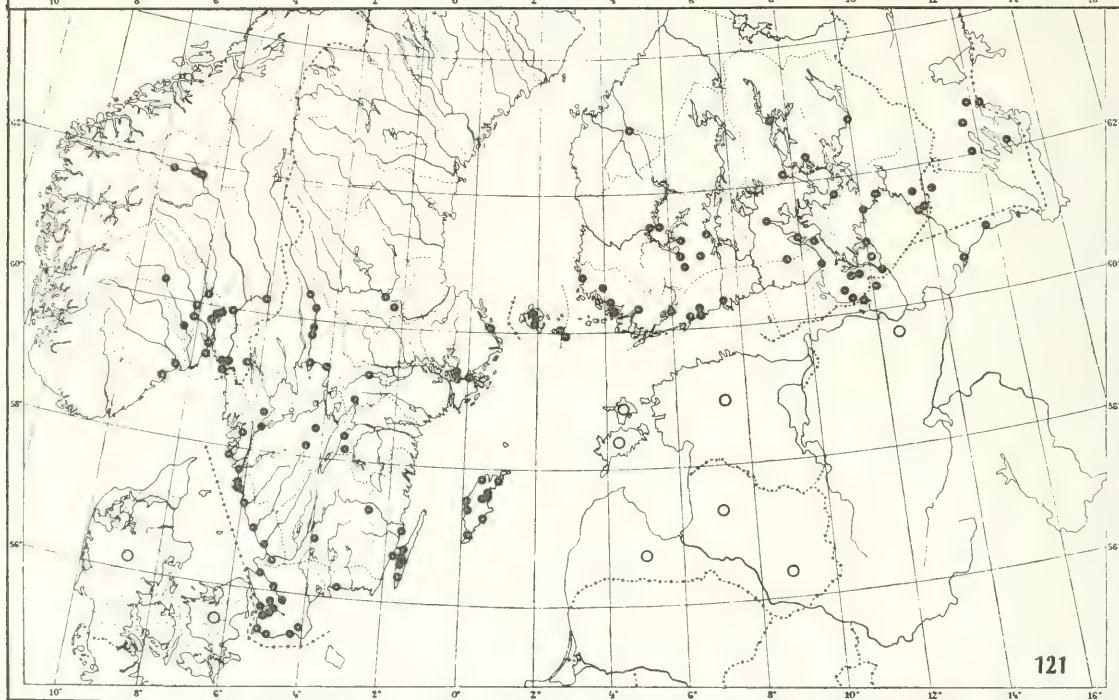
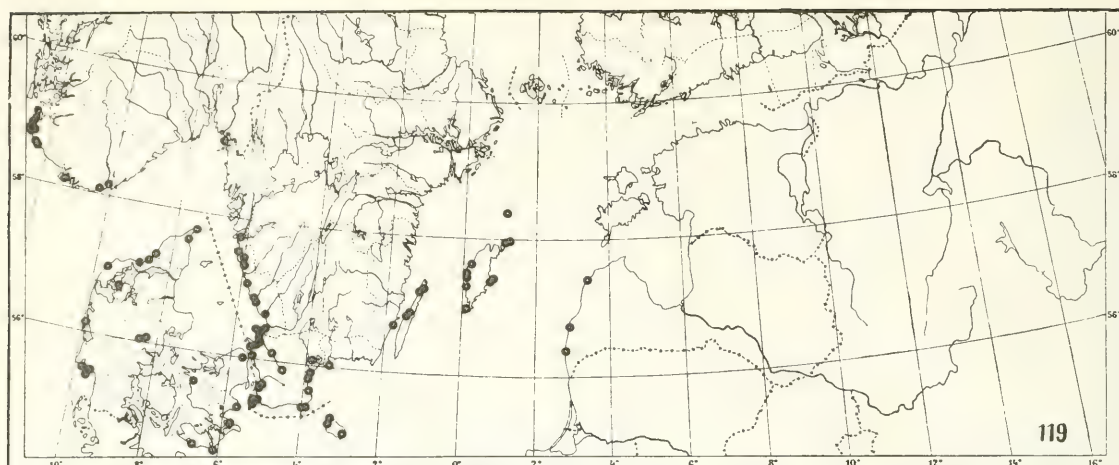
112. *Bembidion minimum* Fbr.
 (113. *Bembidion monticola*, see p. 94.)





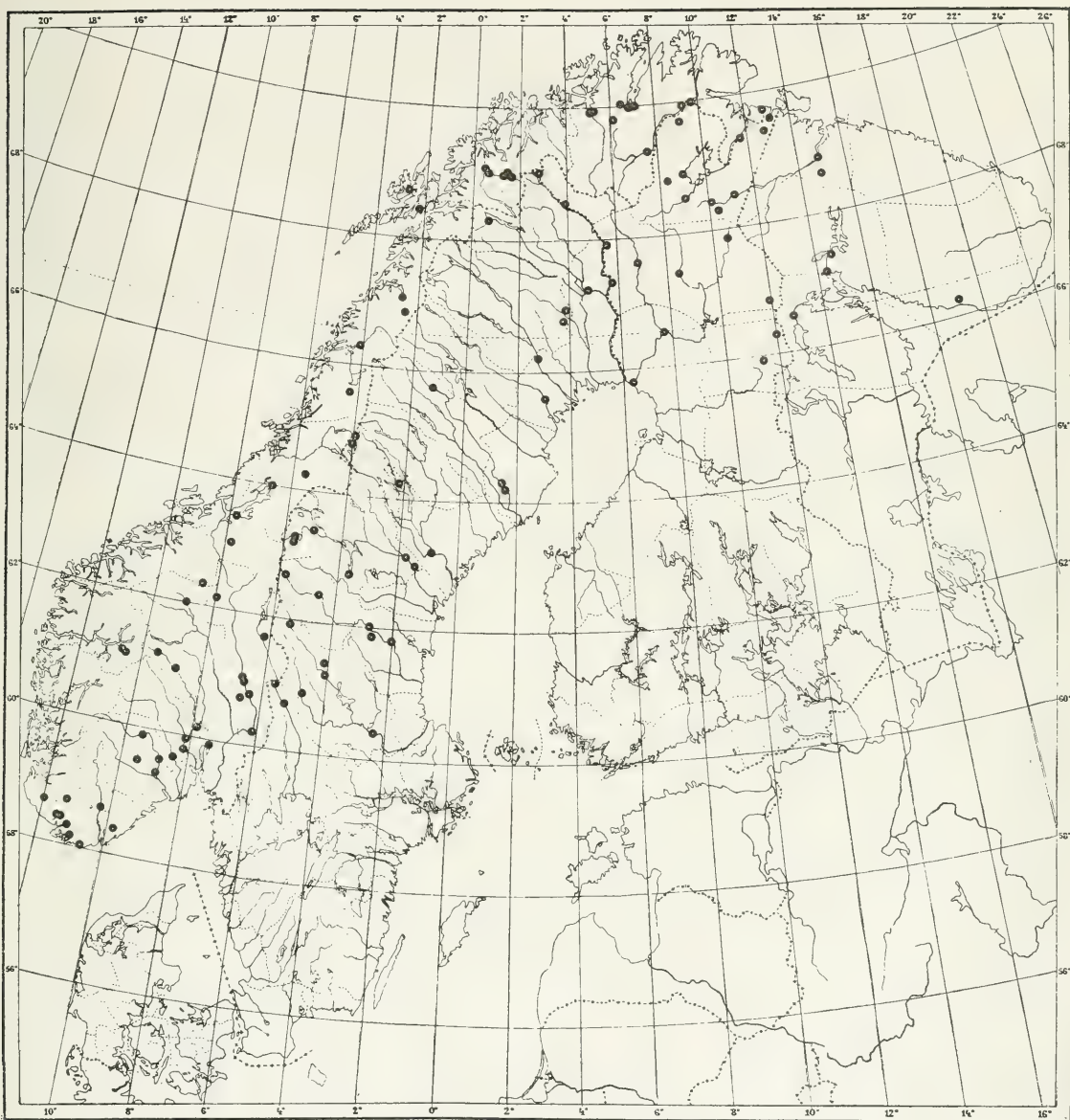




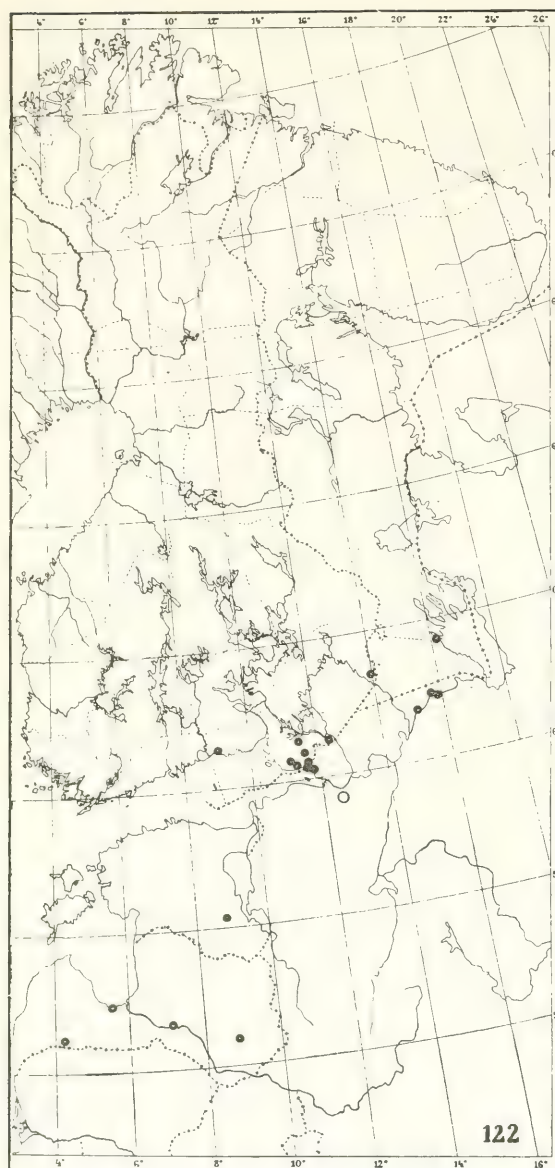


106

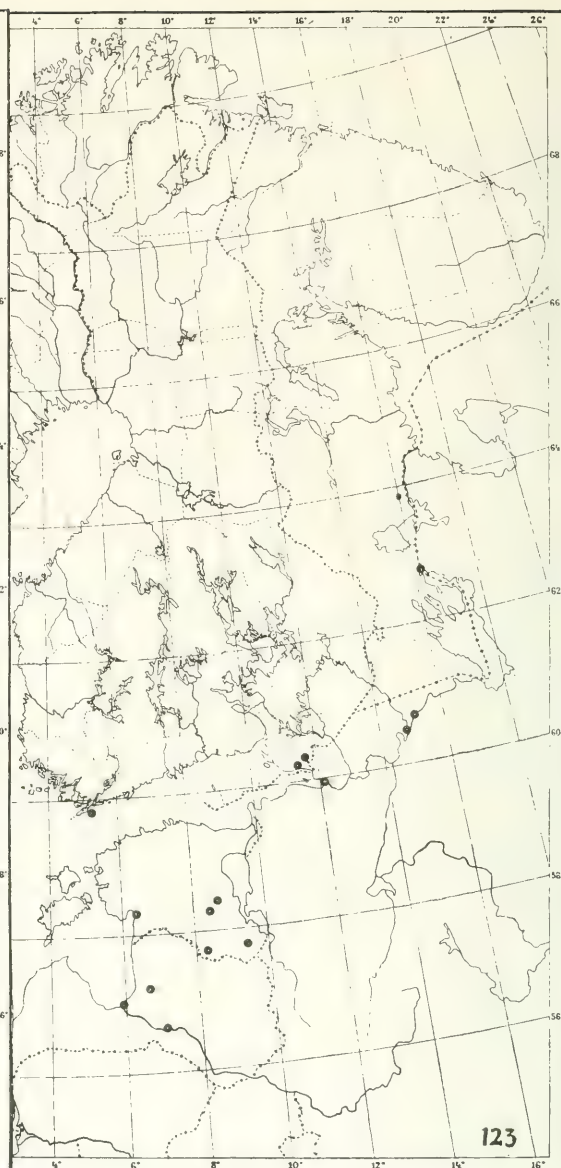
119. *Bembidion pallidipenne* Ill.(120. *Bembidion prasinum*, see p. 101.)121. *Bembidion properans* Steph. Provisional map.



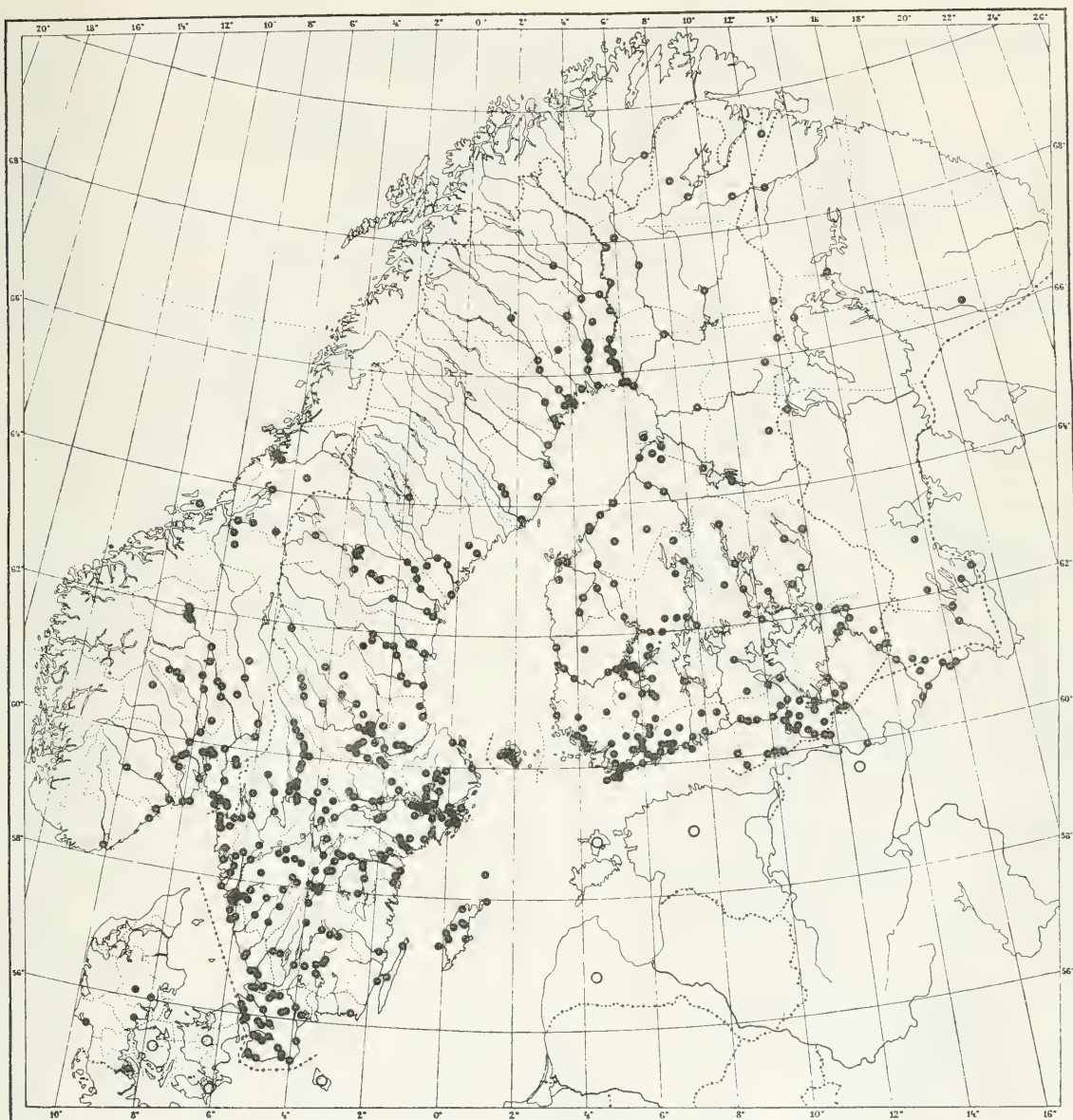
120. *Bembidion prasinum* Dft.
 (121. *Bembidion properans*, see p. 100.)

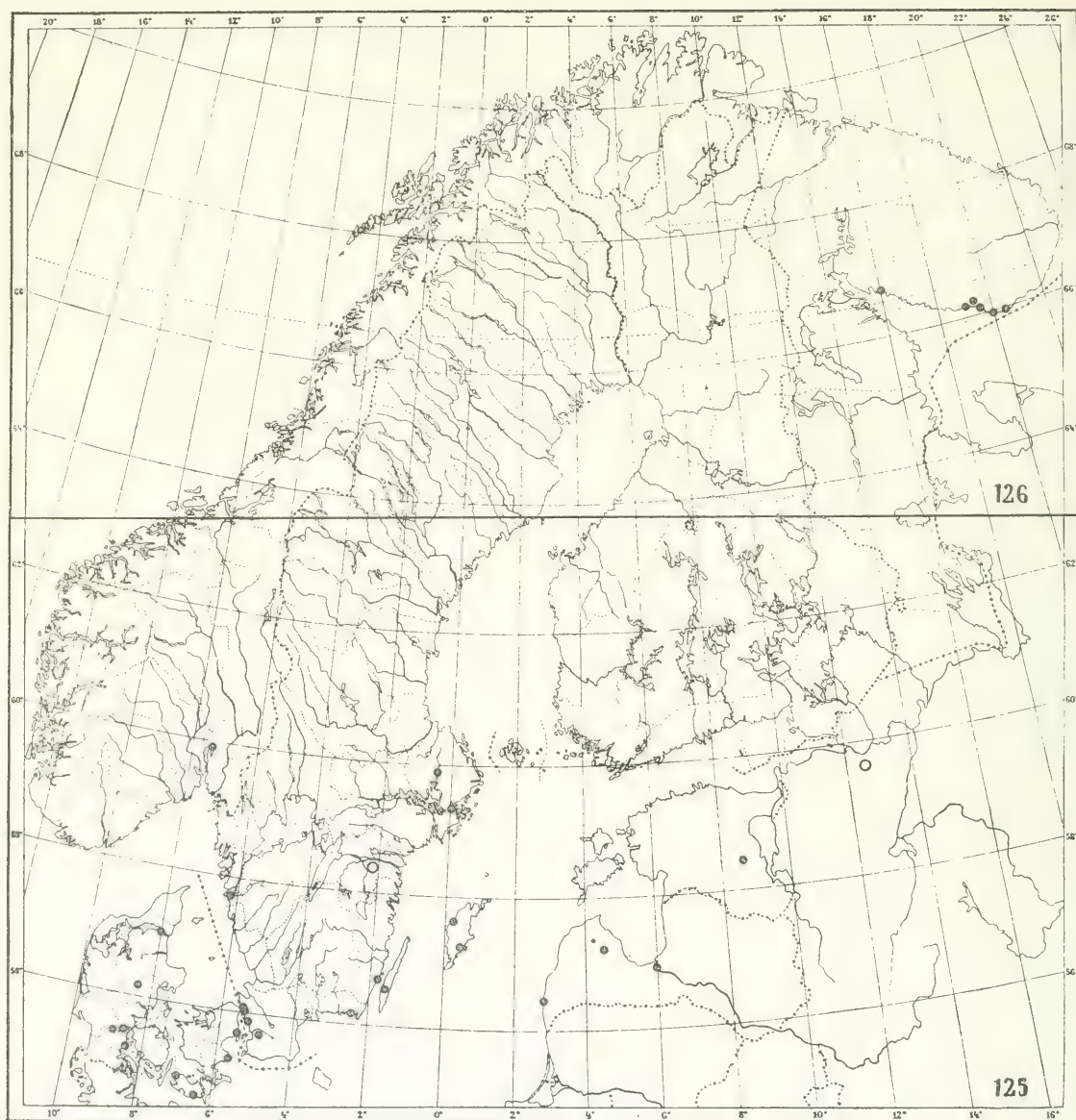


122



123

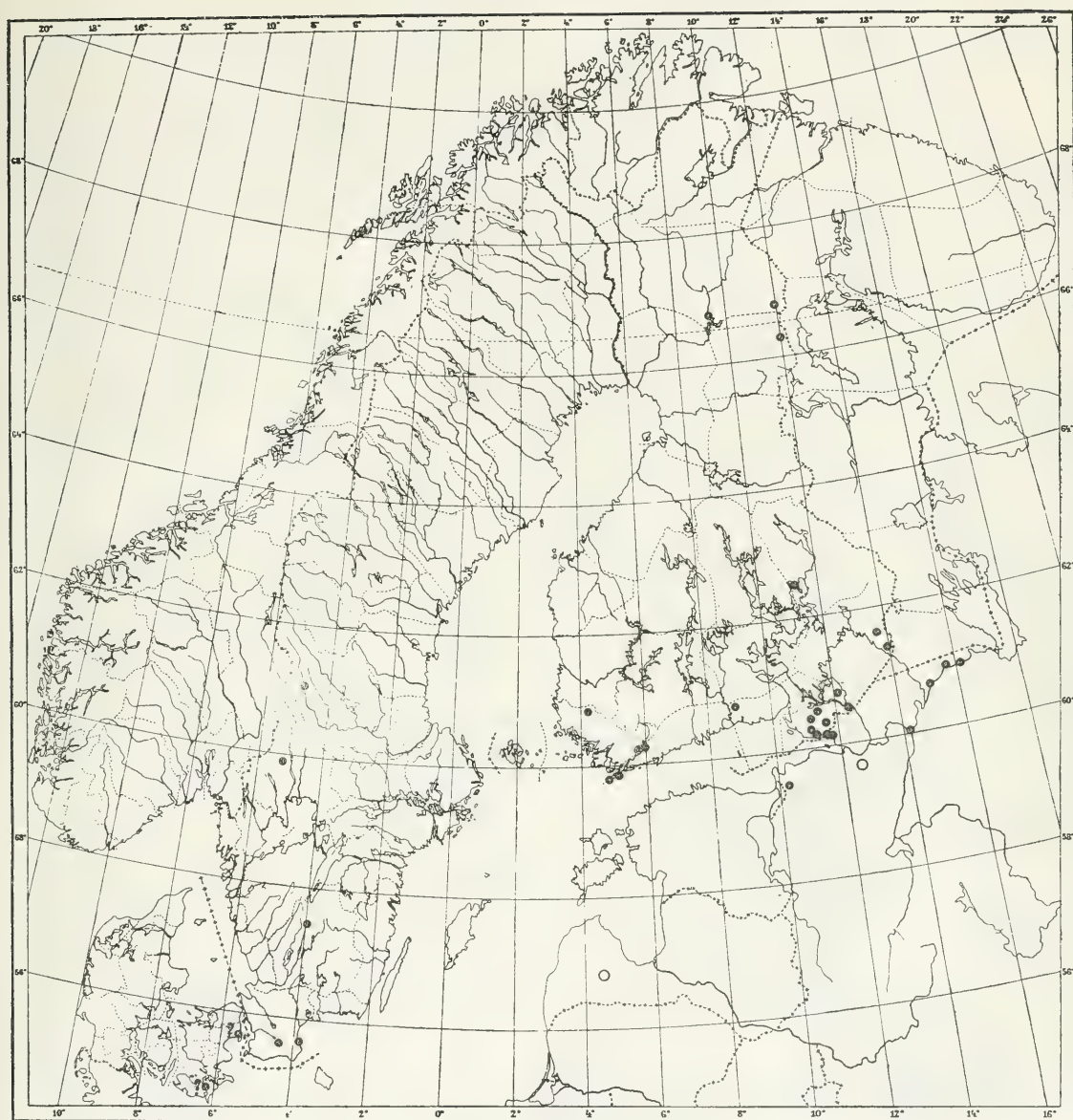




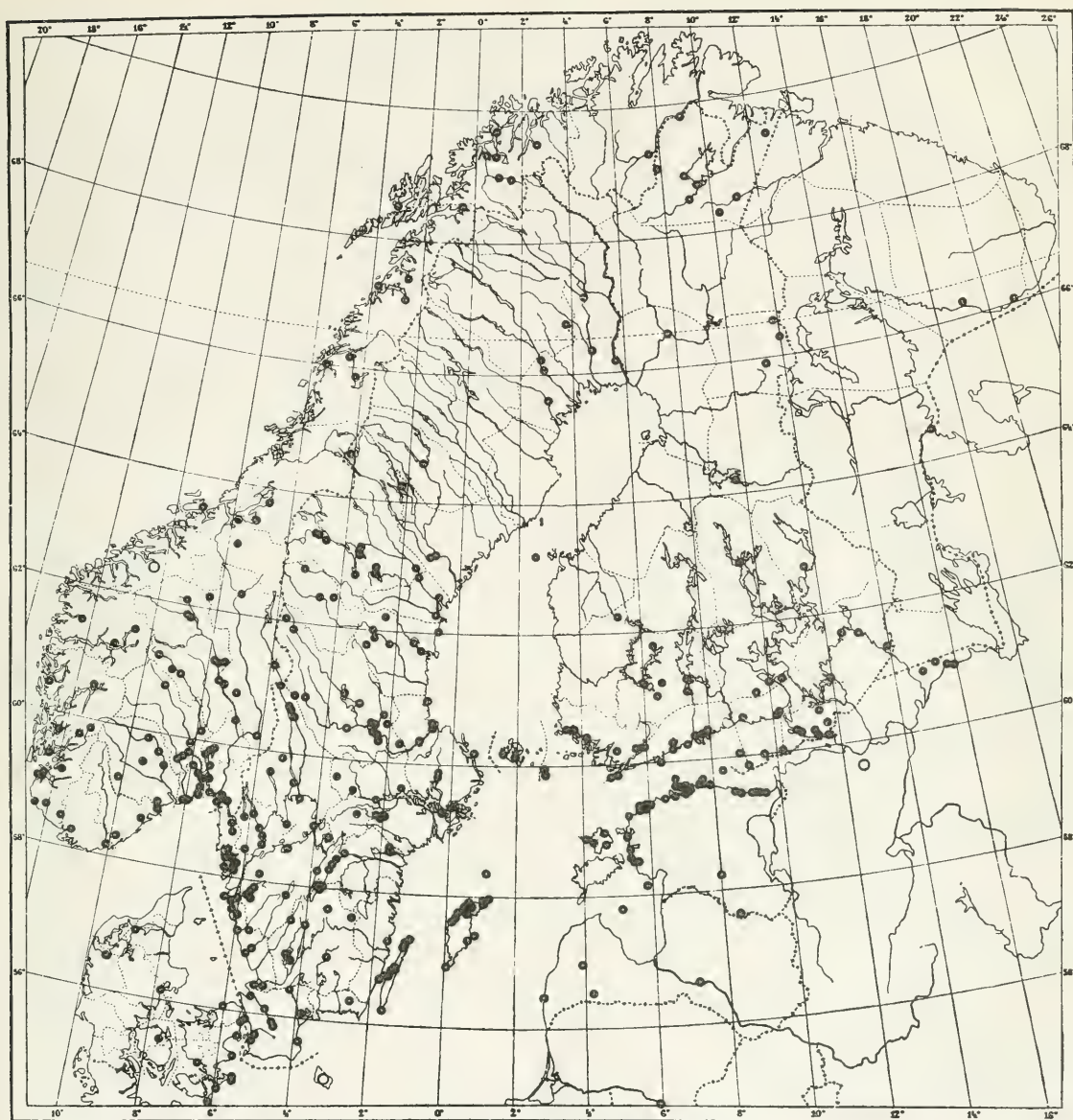
110

125. *Bembidion quinquevittatum* Gyll.126. *Bembidion repandum* J. Sahlb.

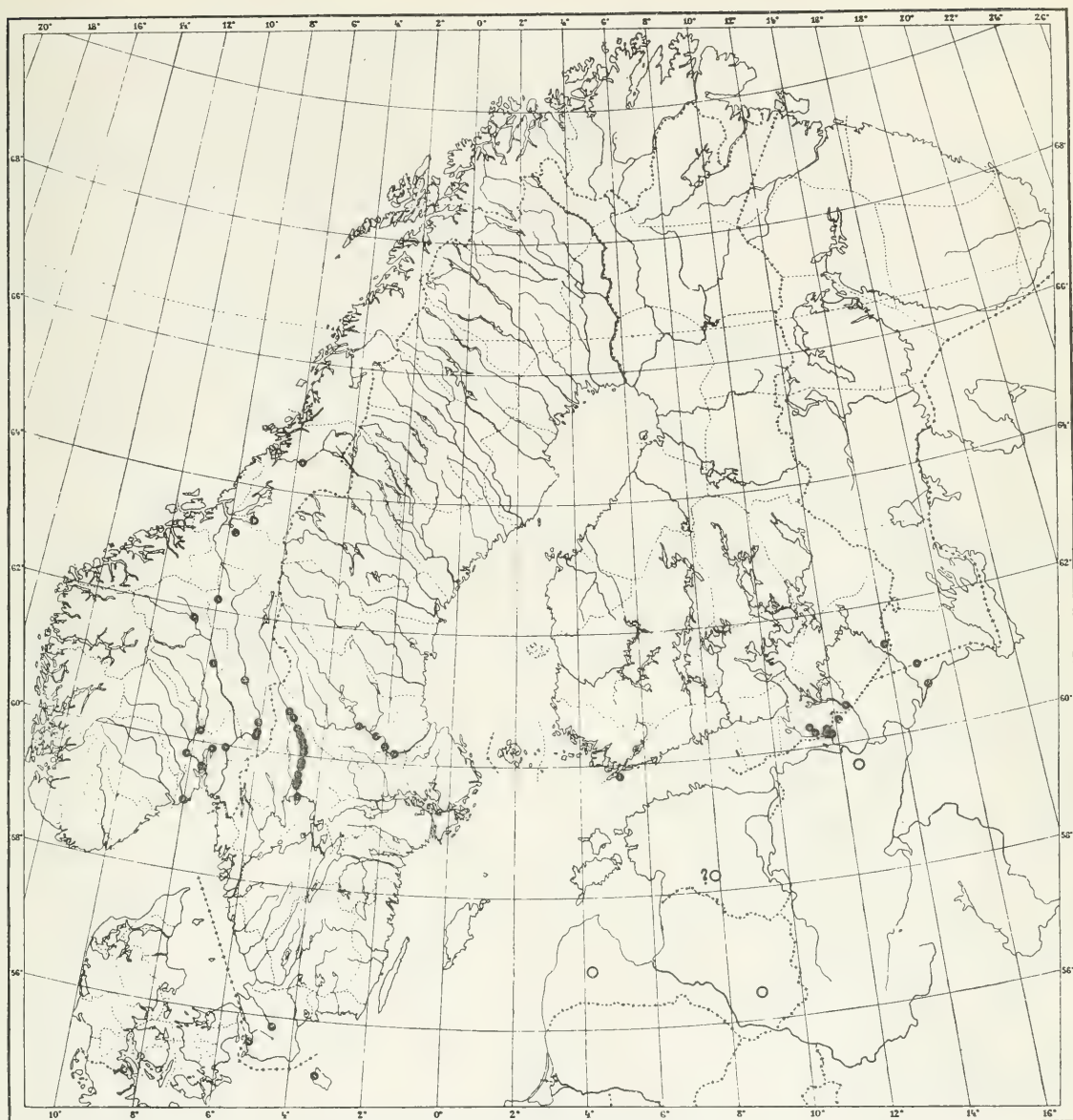
(One locality in Denmark, outside the map.)



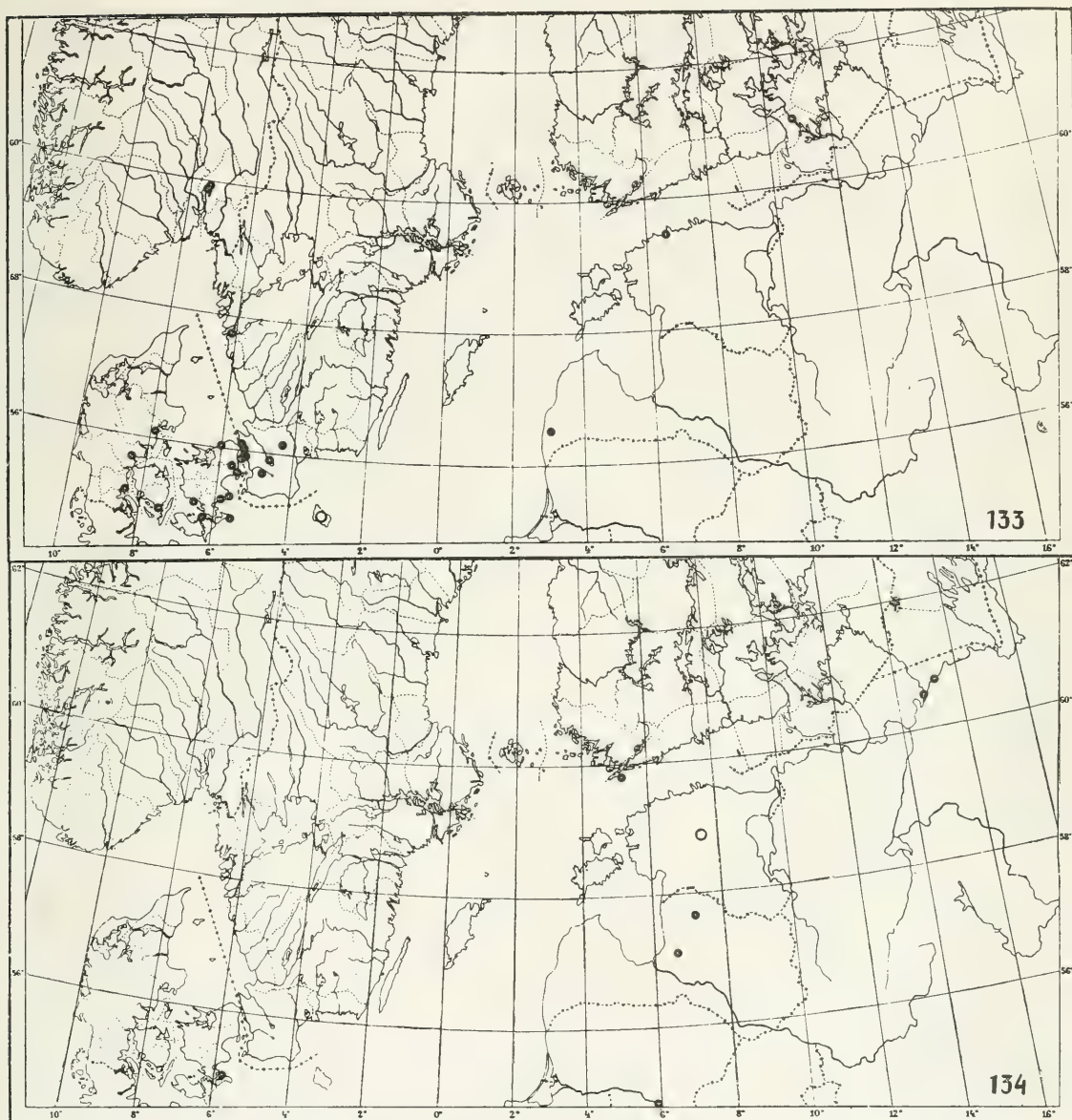


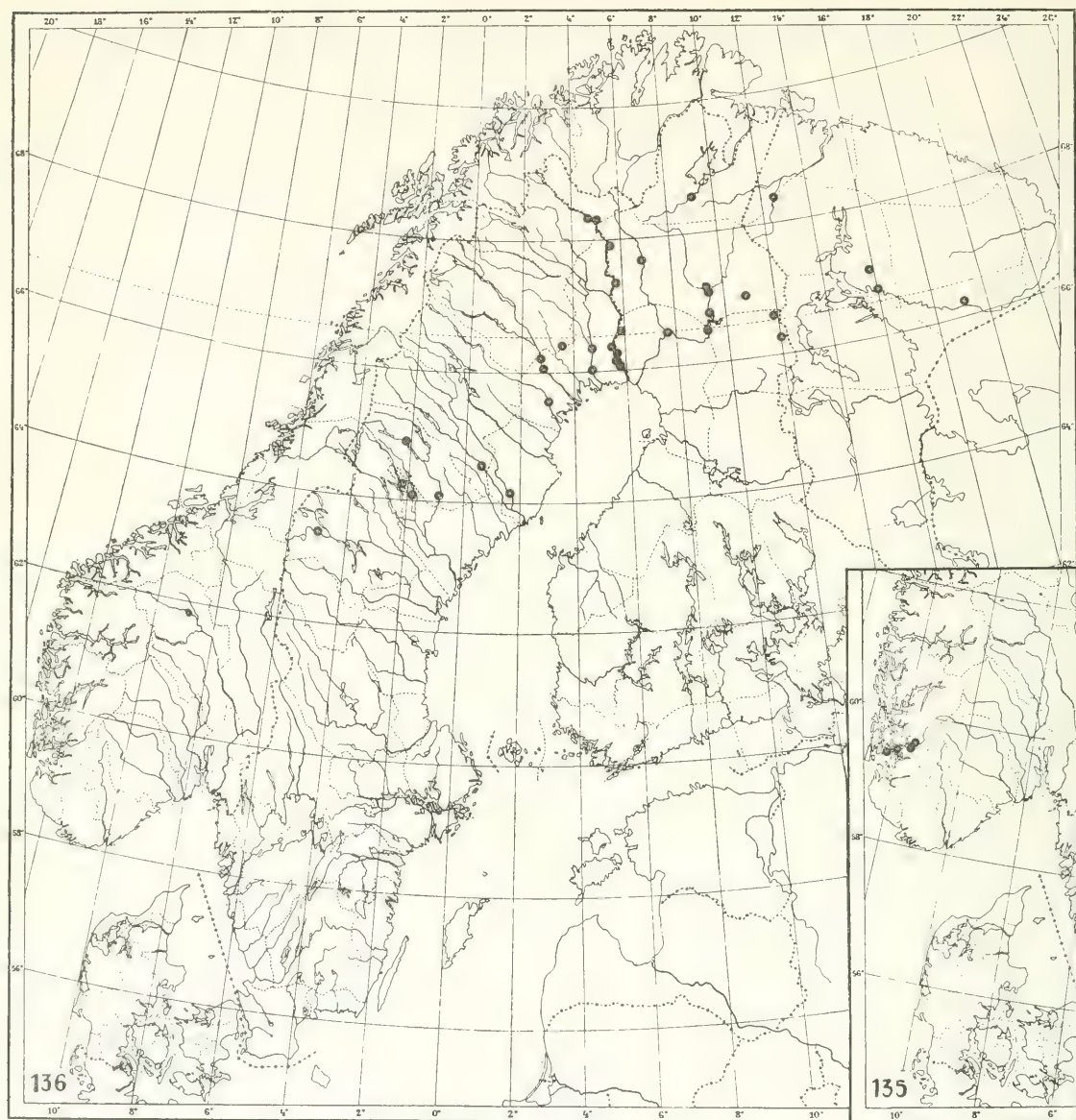








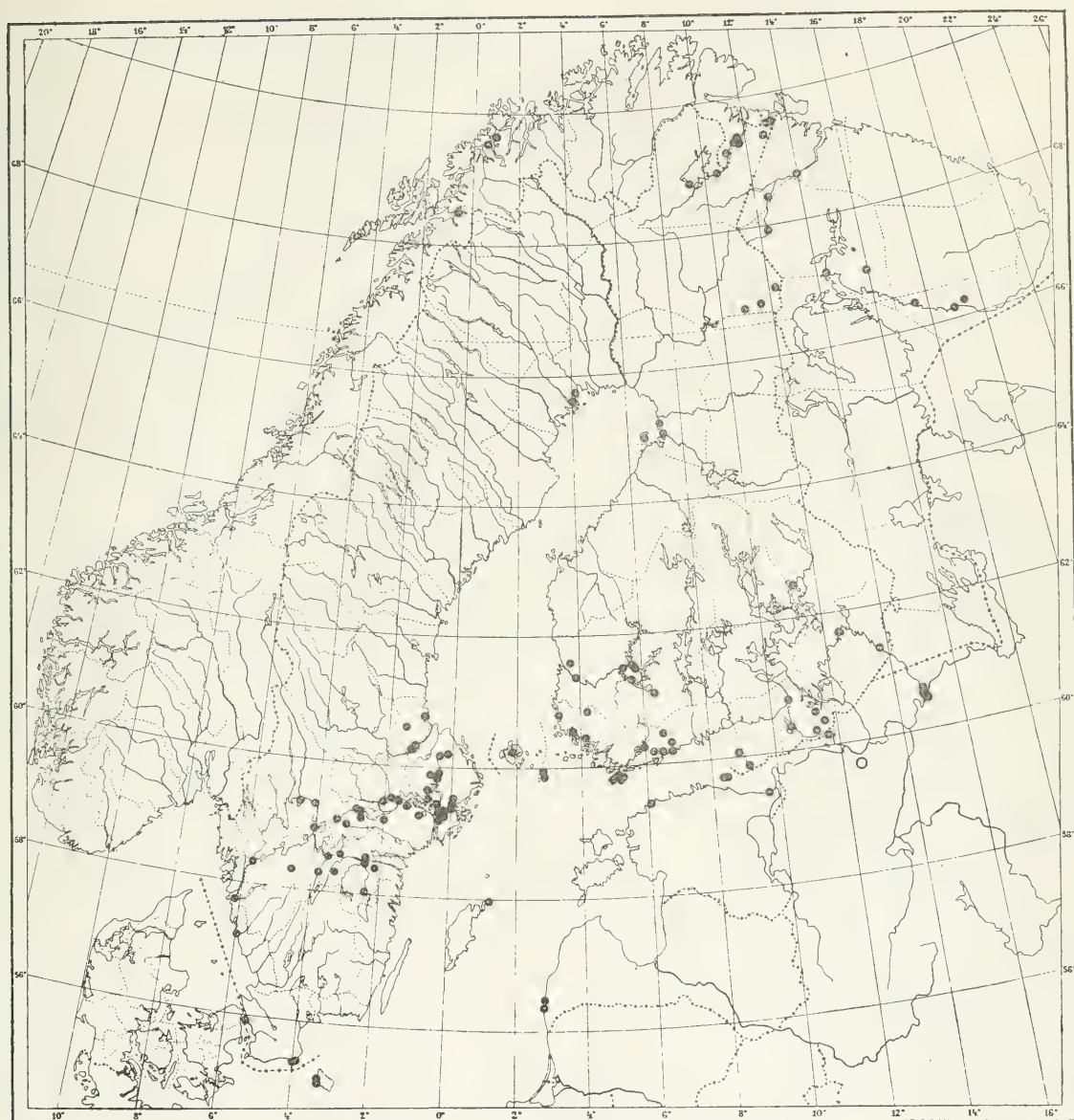




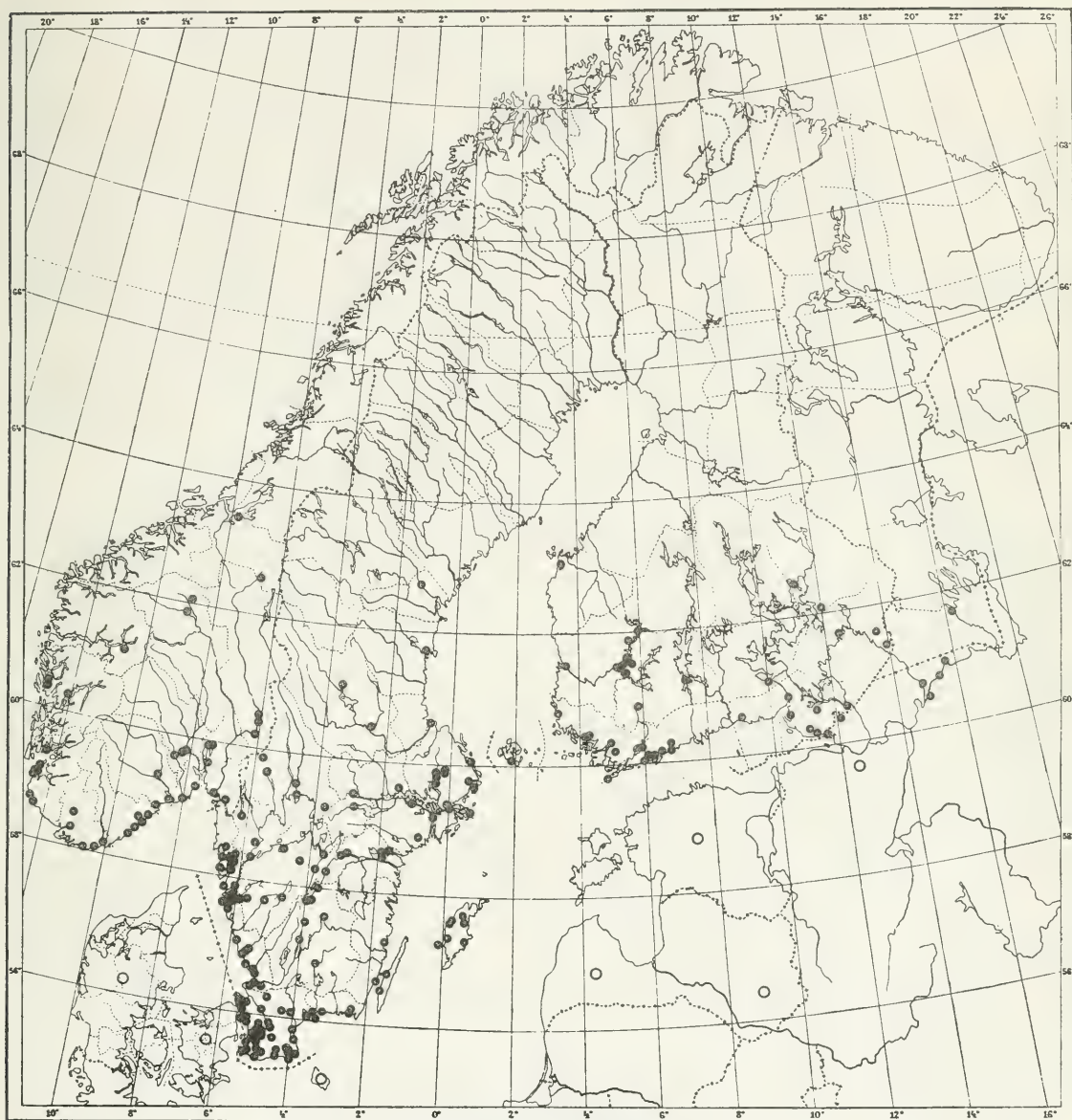
118

135. *Bembidion tibiale* Dft.136. *Bembidion tinctum* Zett.

(For Finland only provisional map.)







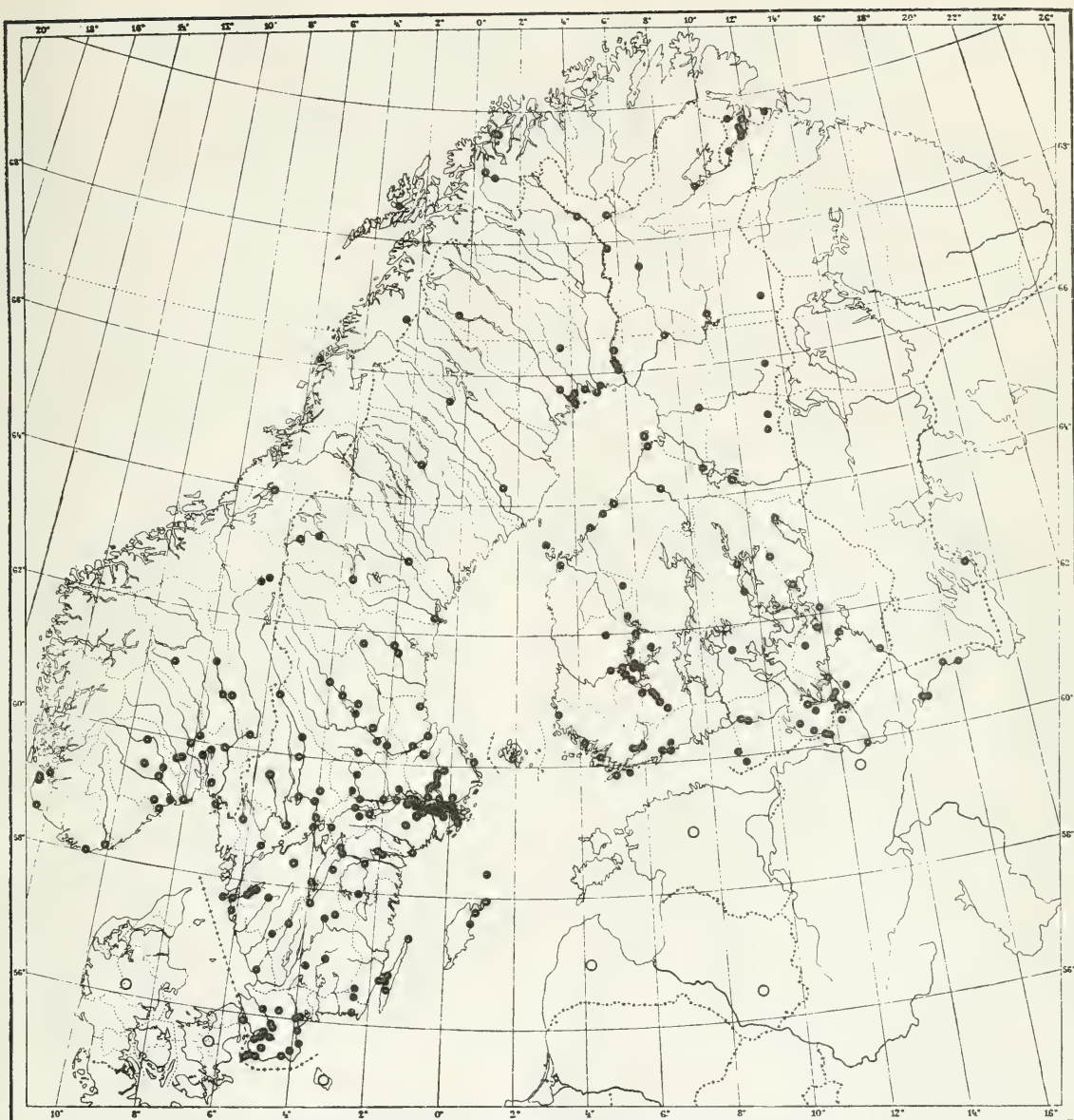




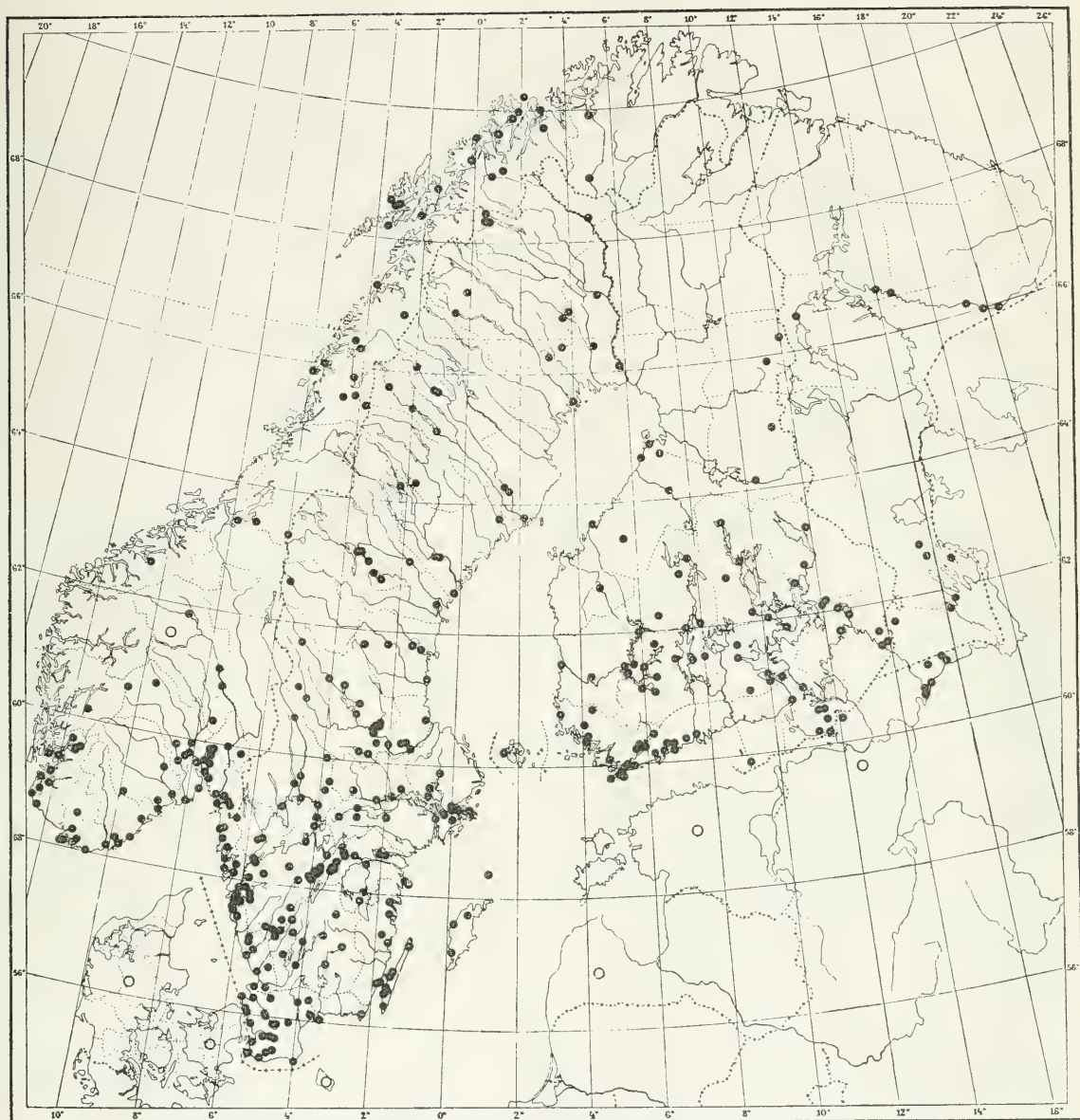


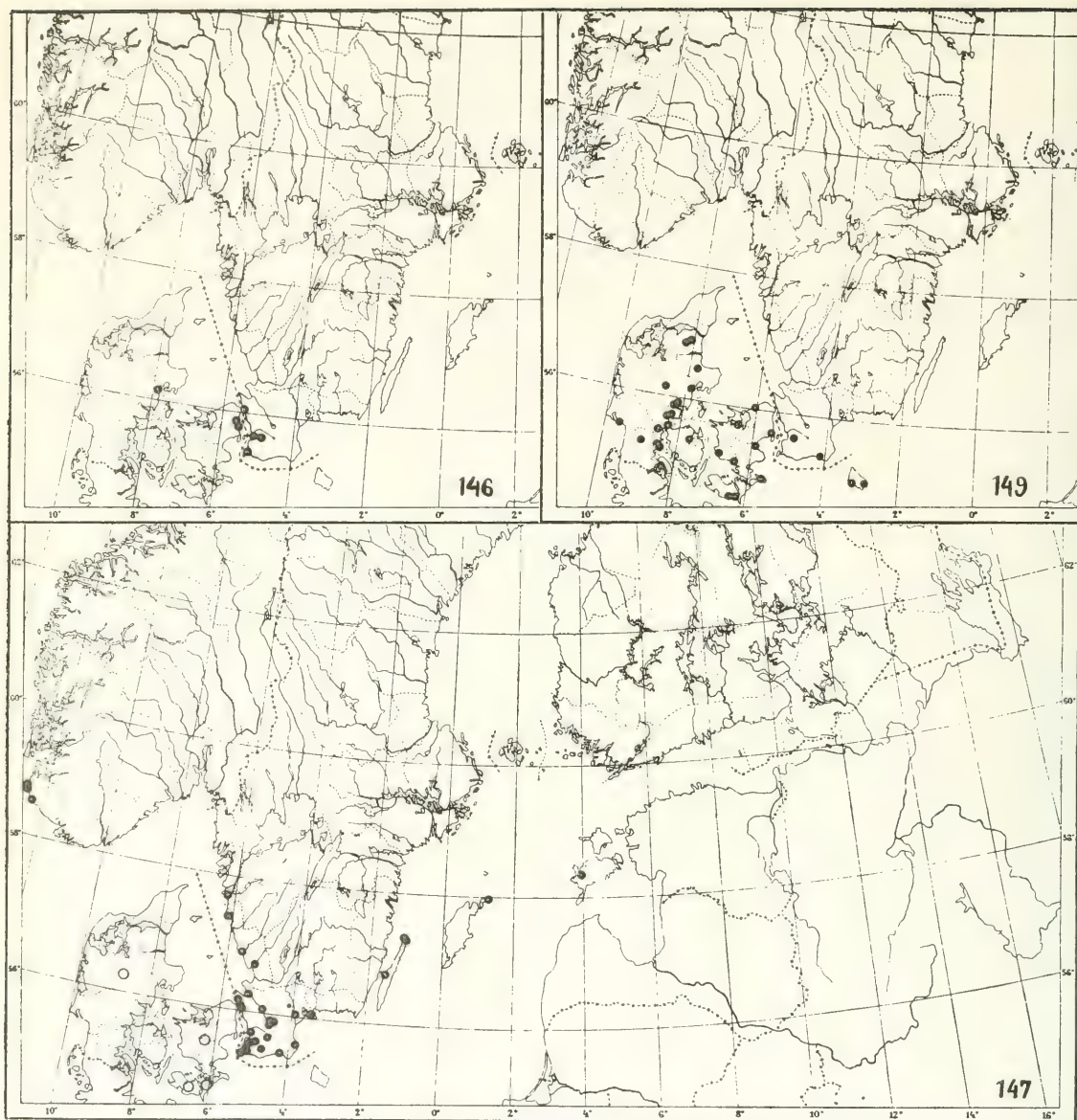
124

142. *Bembidion virens* Gyll.



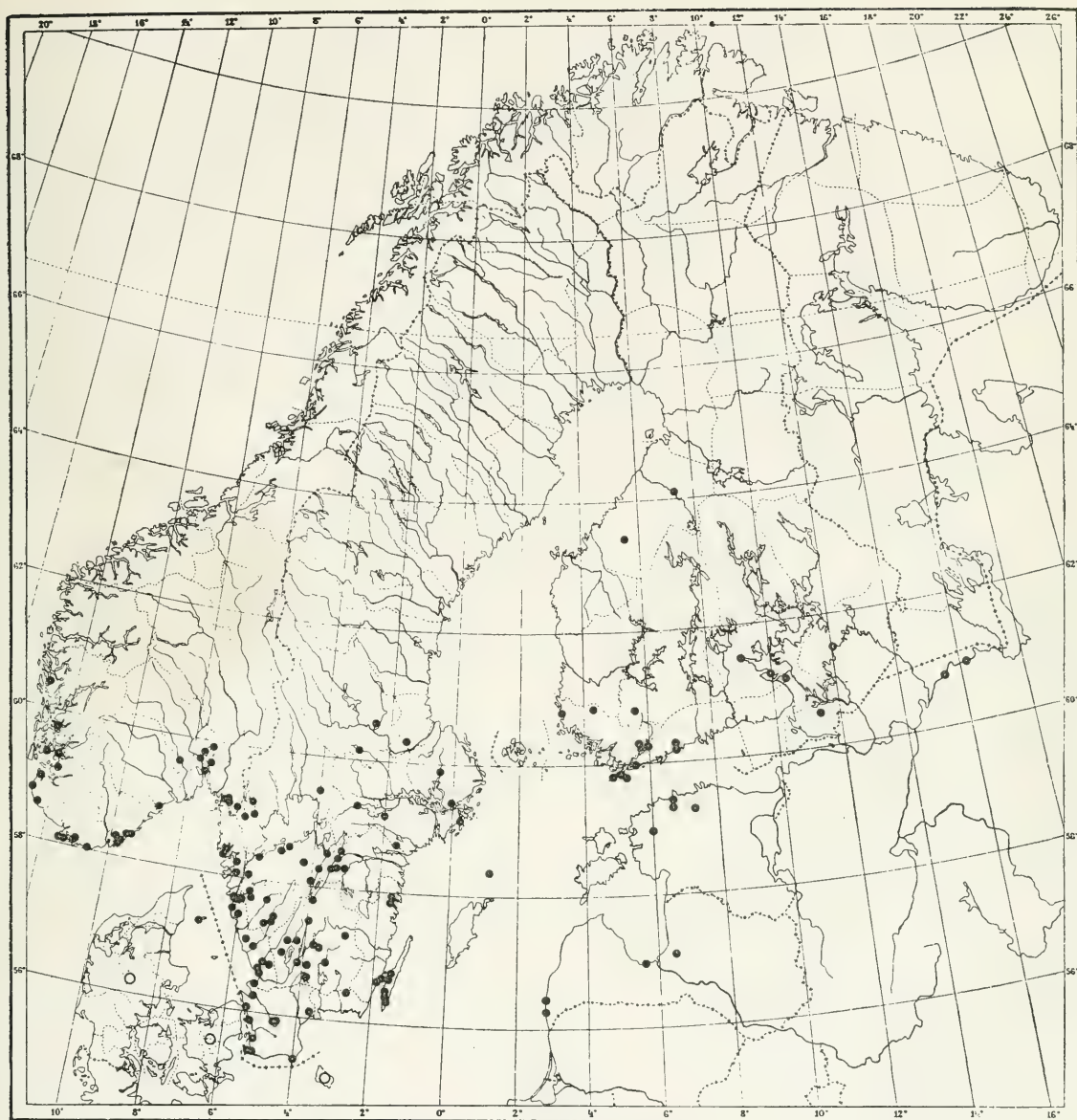






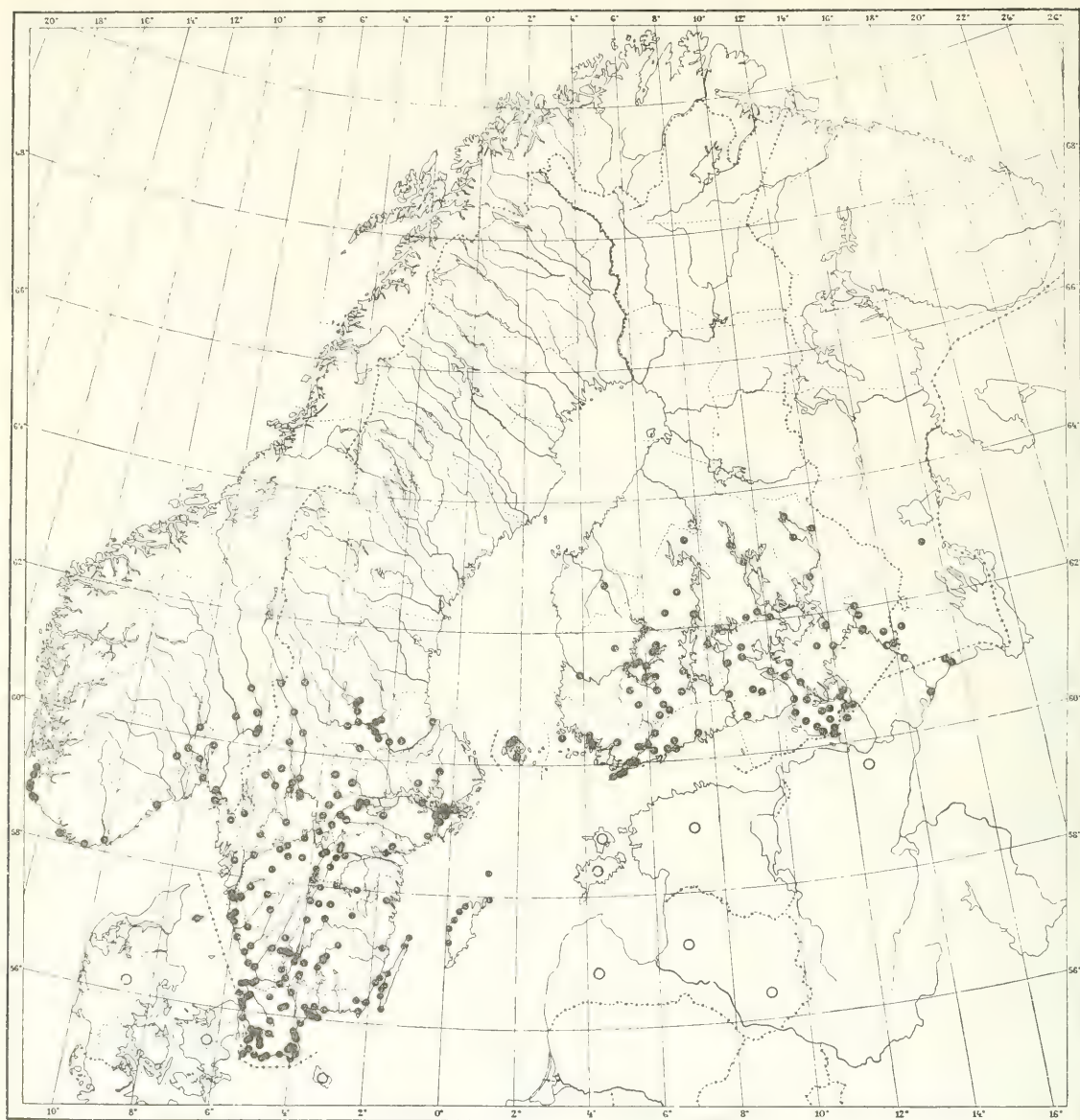
128

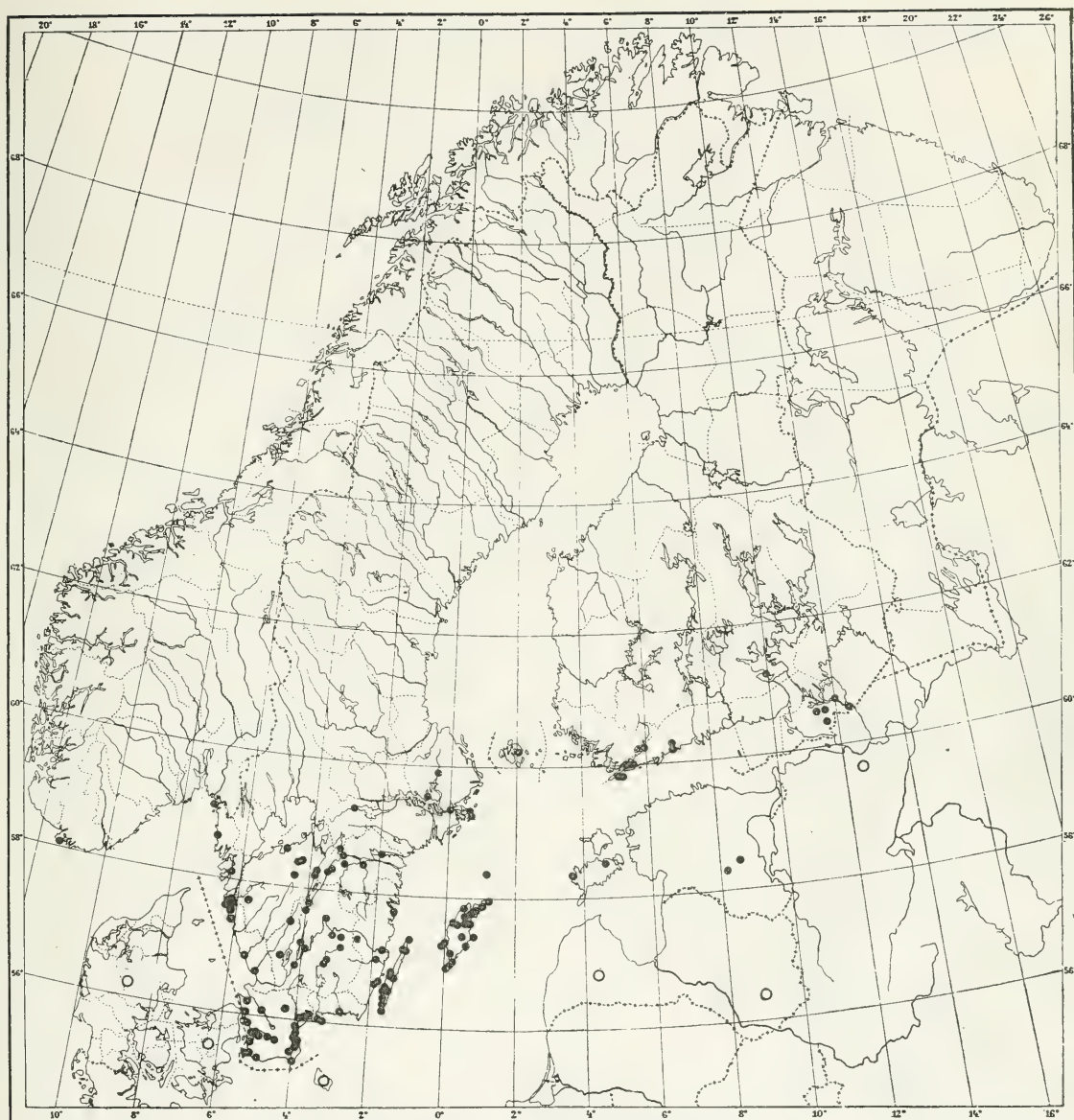
146. *Bradycellus csikii* Laczo. Provisional map.147. *Bradycellus harpalinus* Serv.(148. *Bradycellus similis*, see p. 123.)149. *Bradycellus verbasci* Dft.

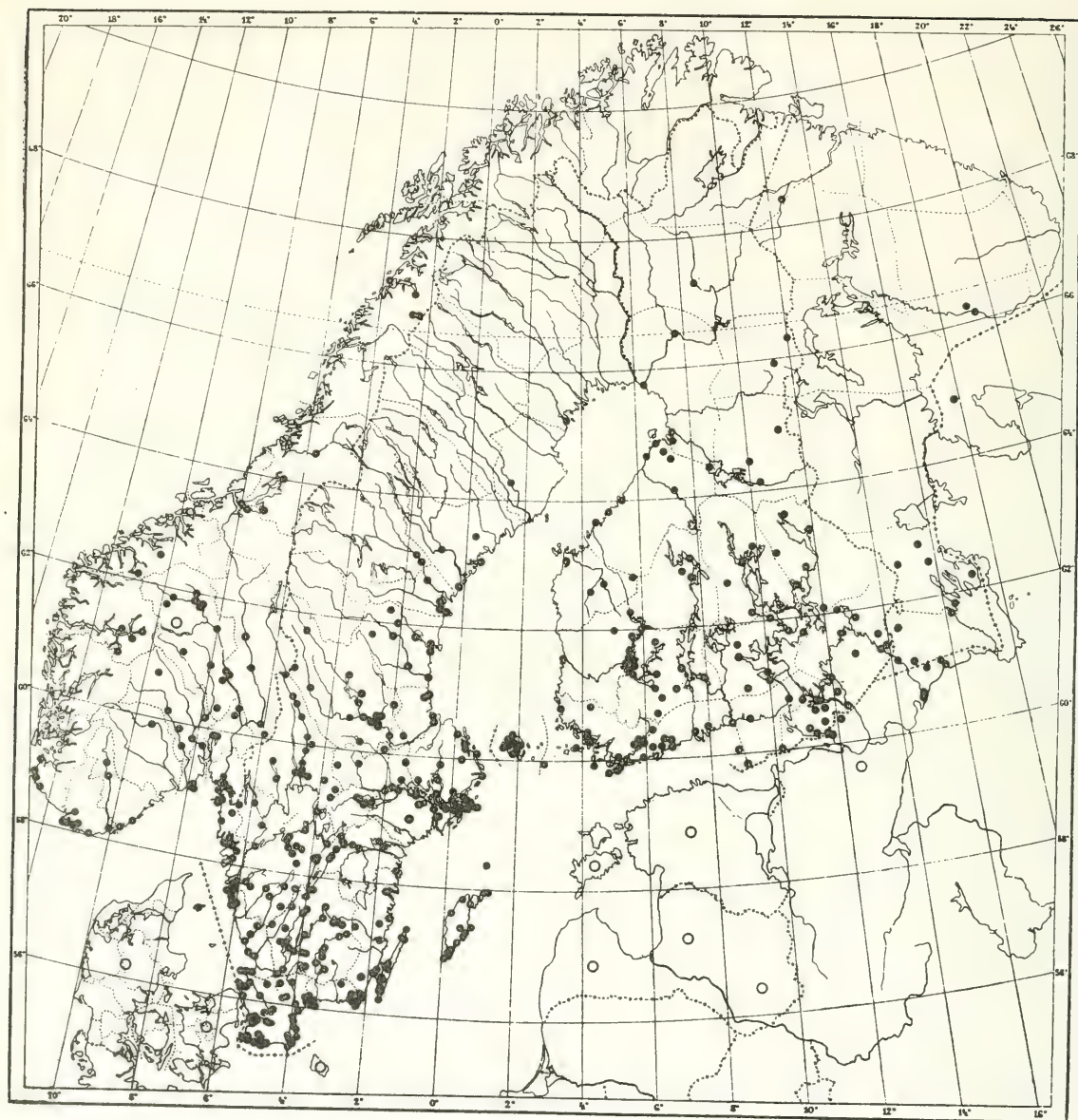


129

148. *Bradycellus similis* Dej.(149. *Bradycellus verbasci*, see p. 122.)

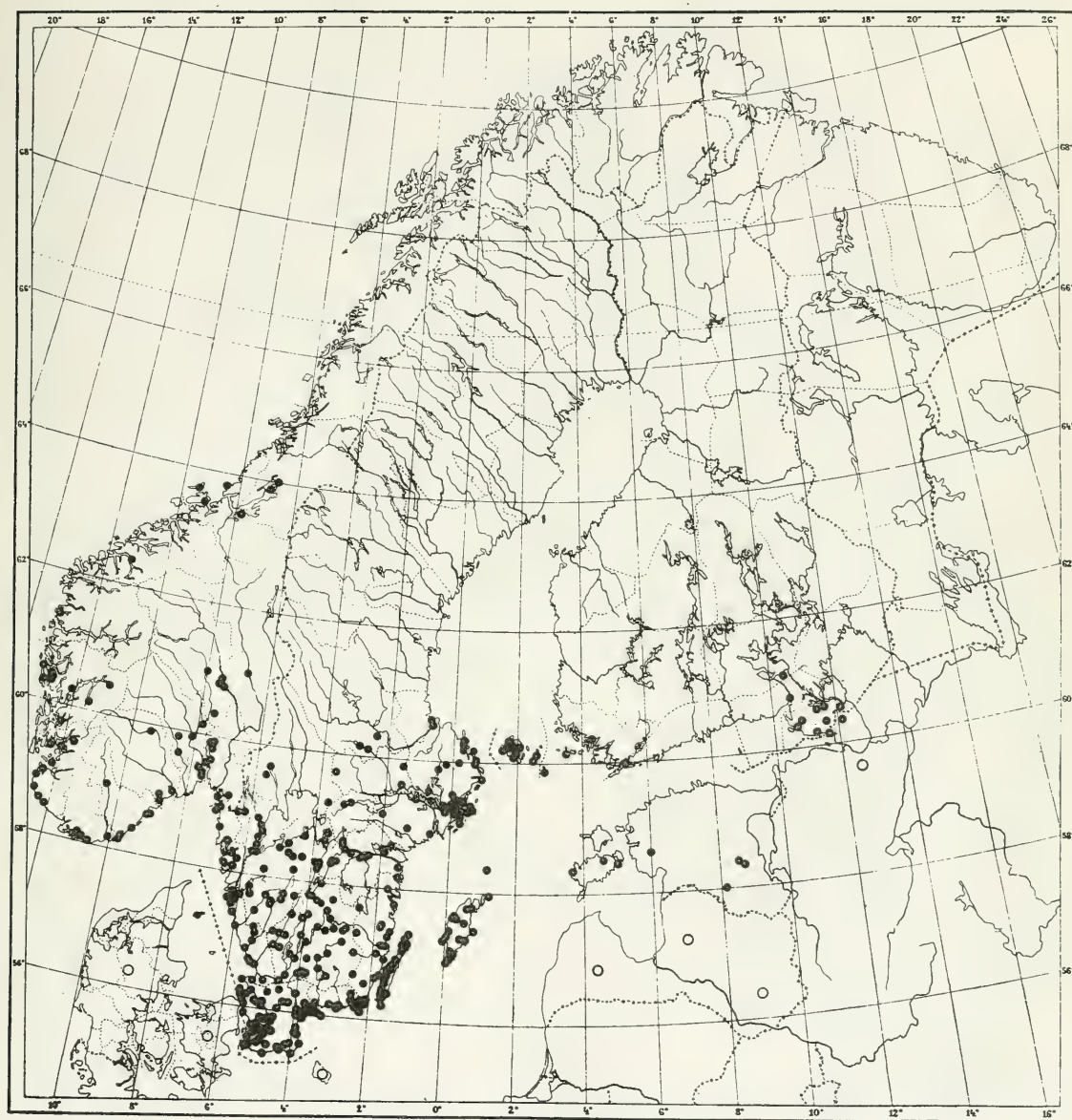






132

152. *Calathus erratus* C.R. Sahlb.

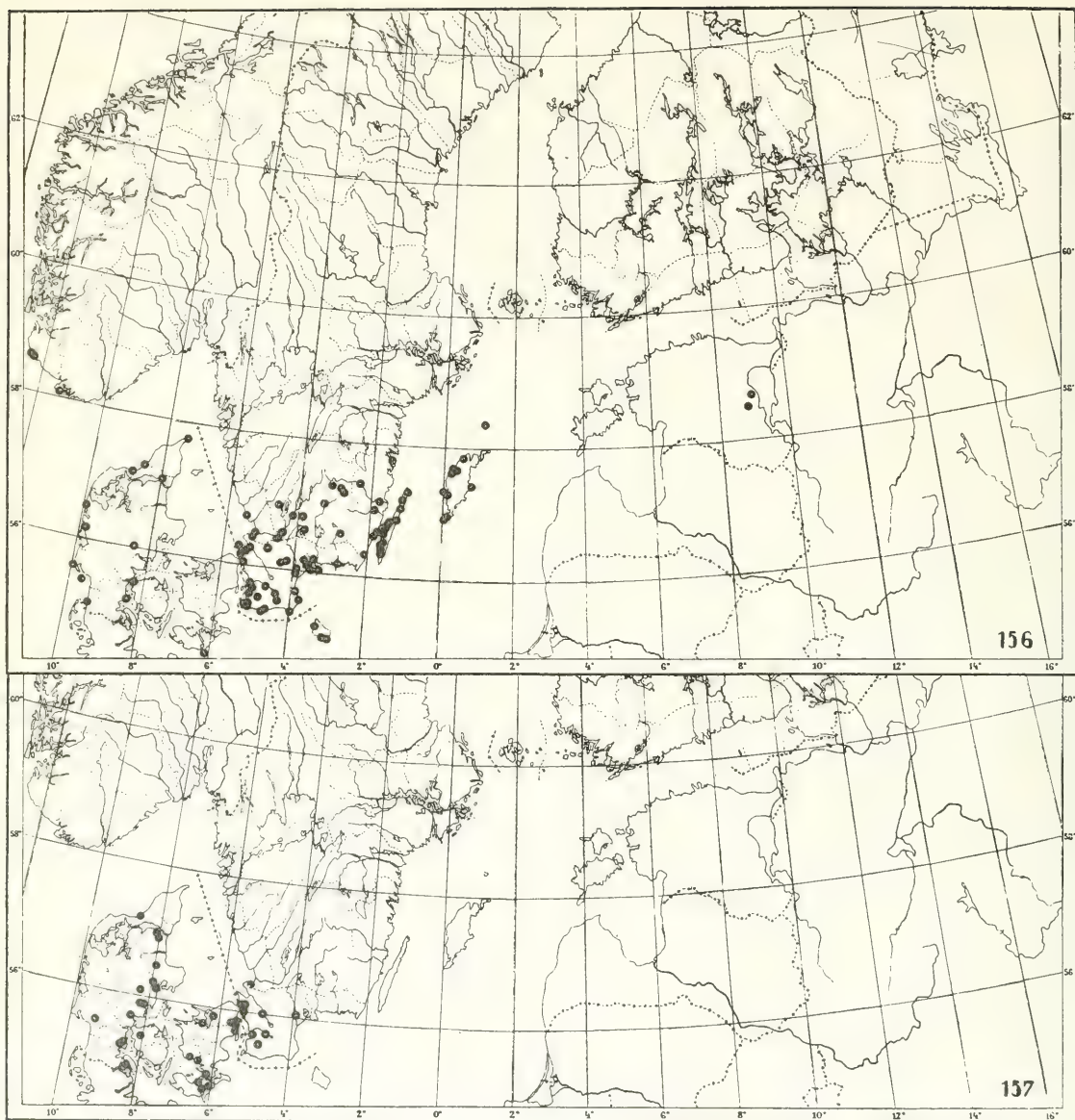




134

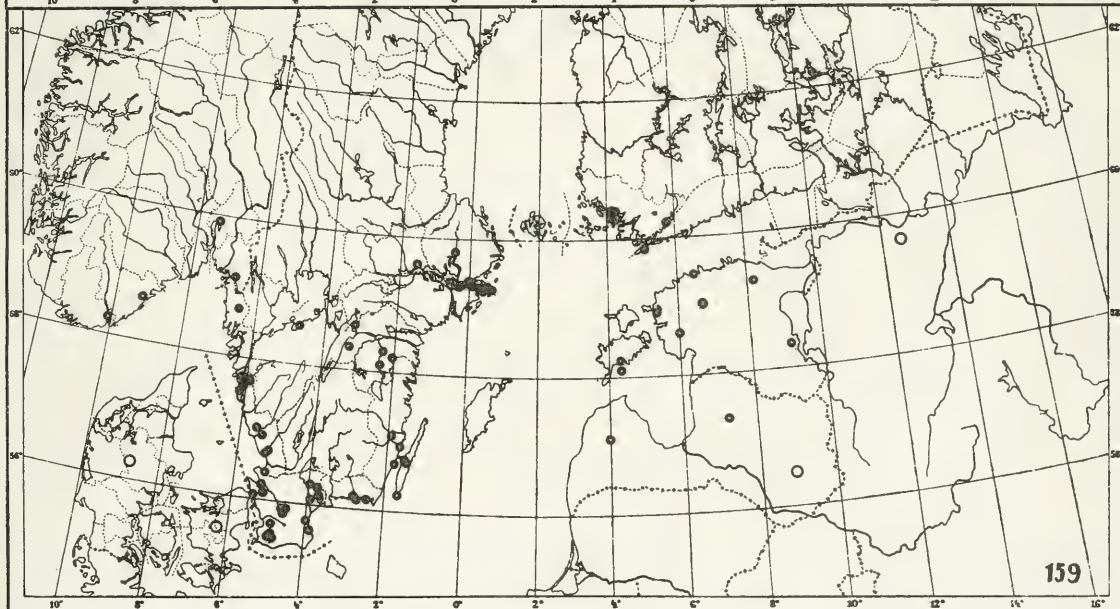
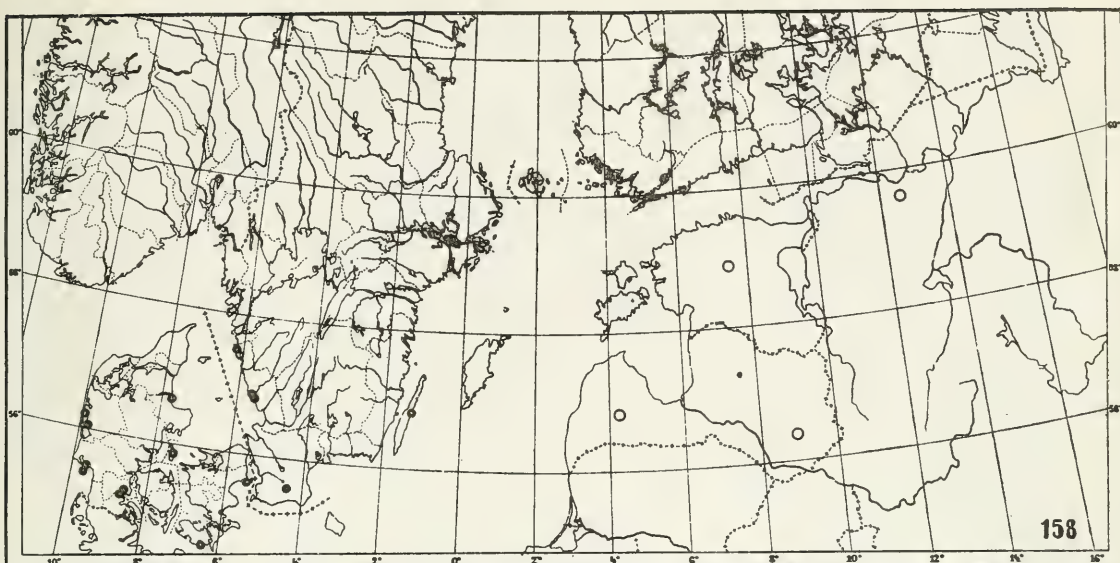
154. *Calathus melanocephalus* L.

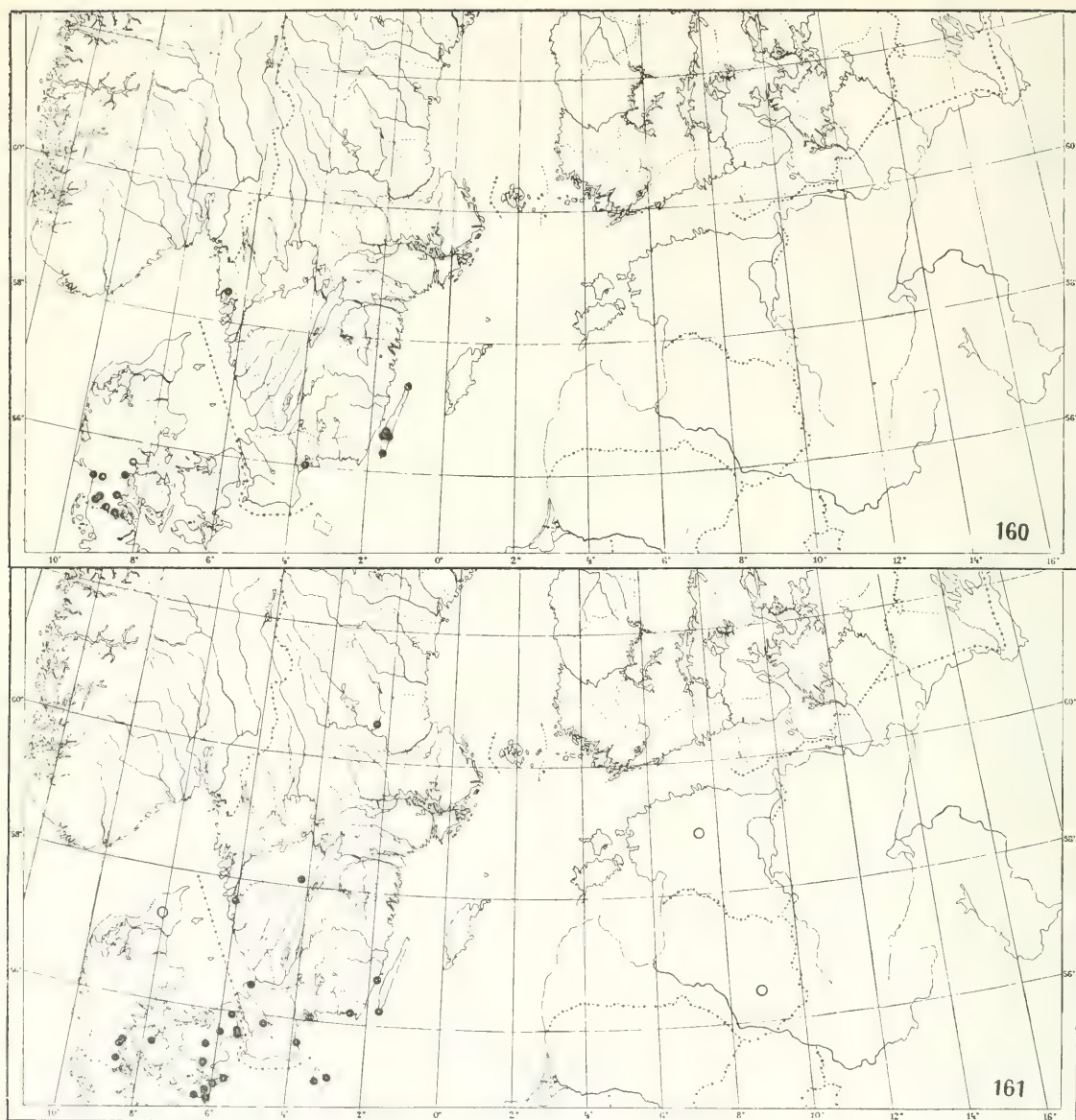




136

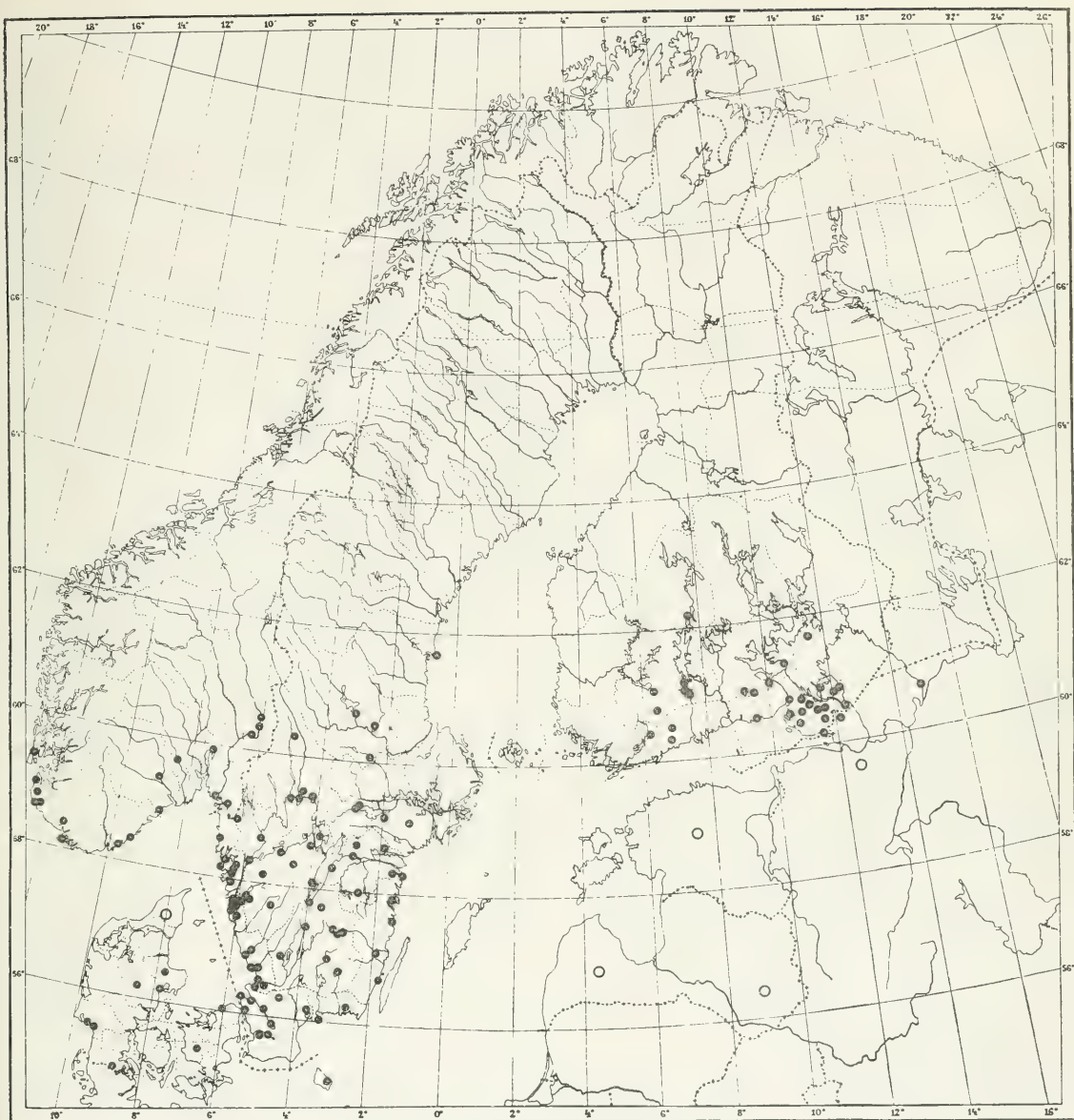
156. *Calathus mollis* Mrsh.157. *Calathus piceus* Mrsh.

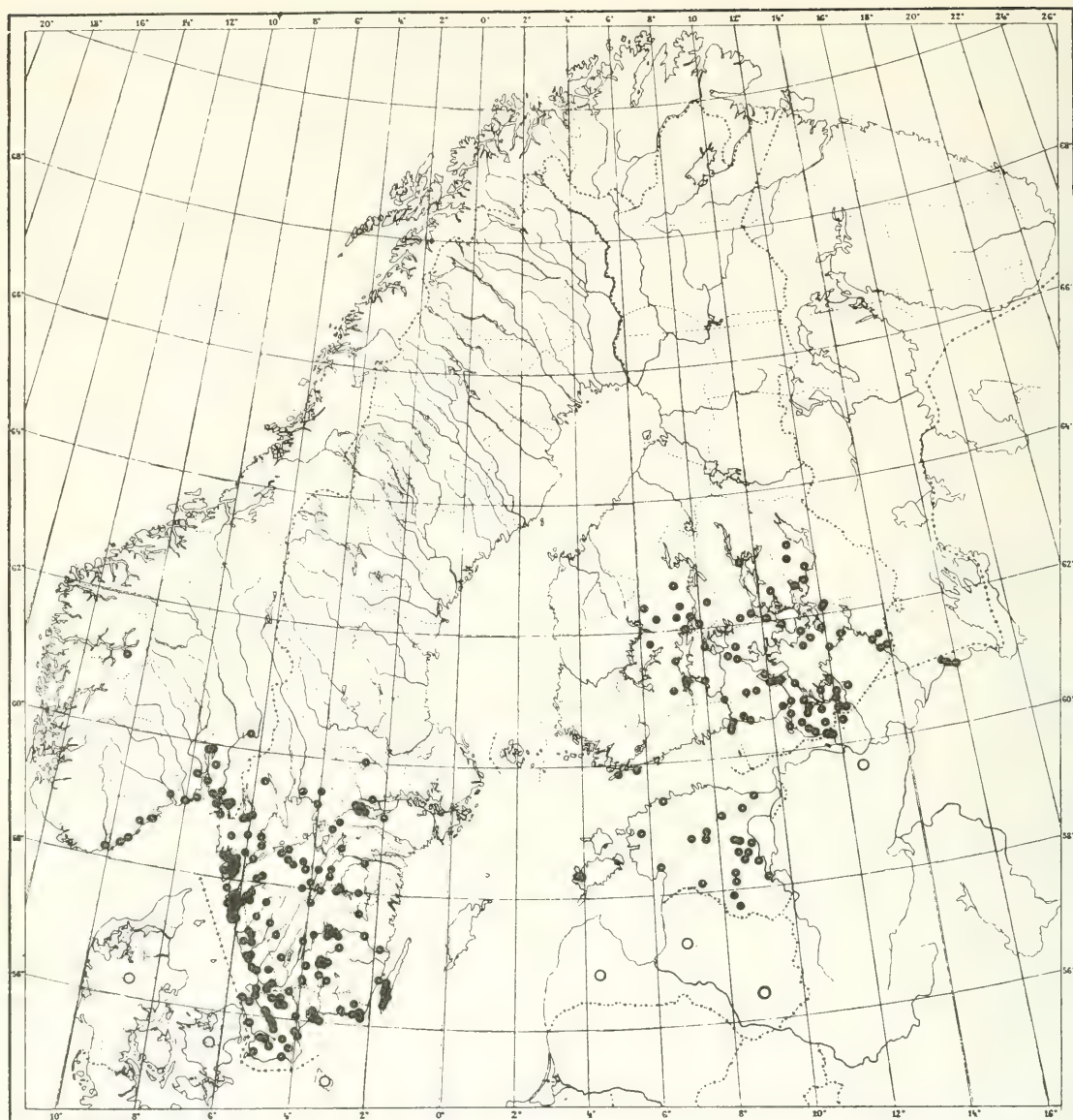


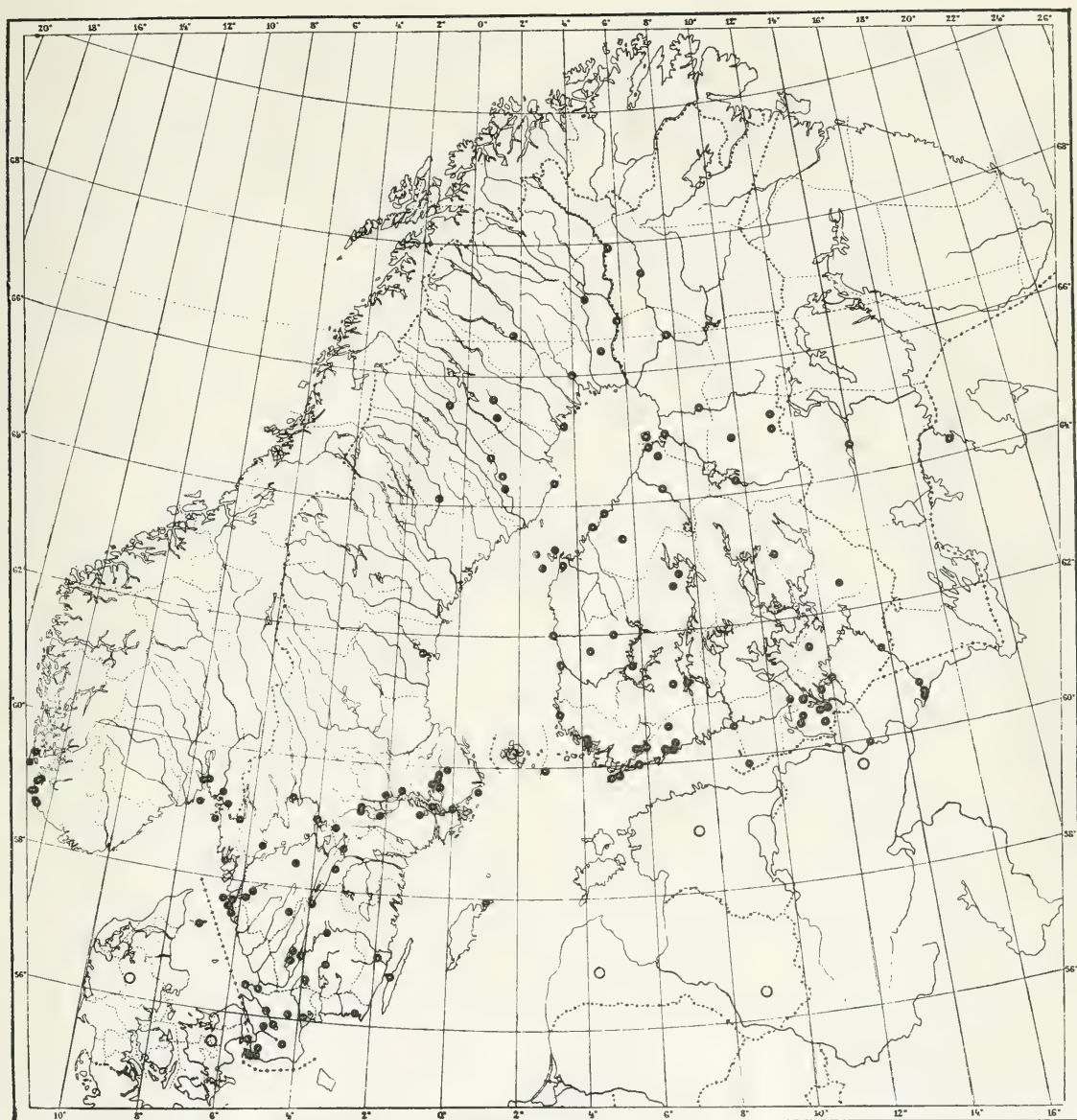


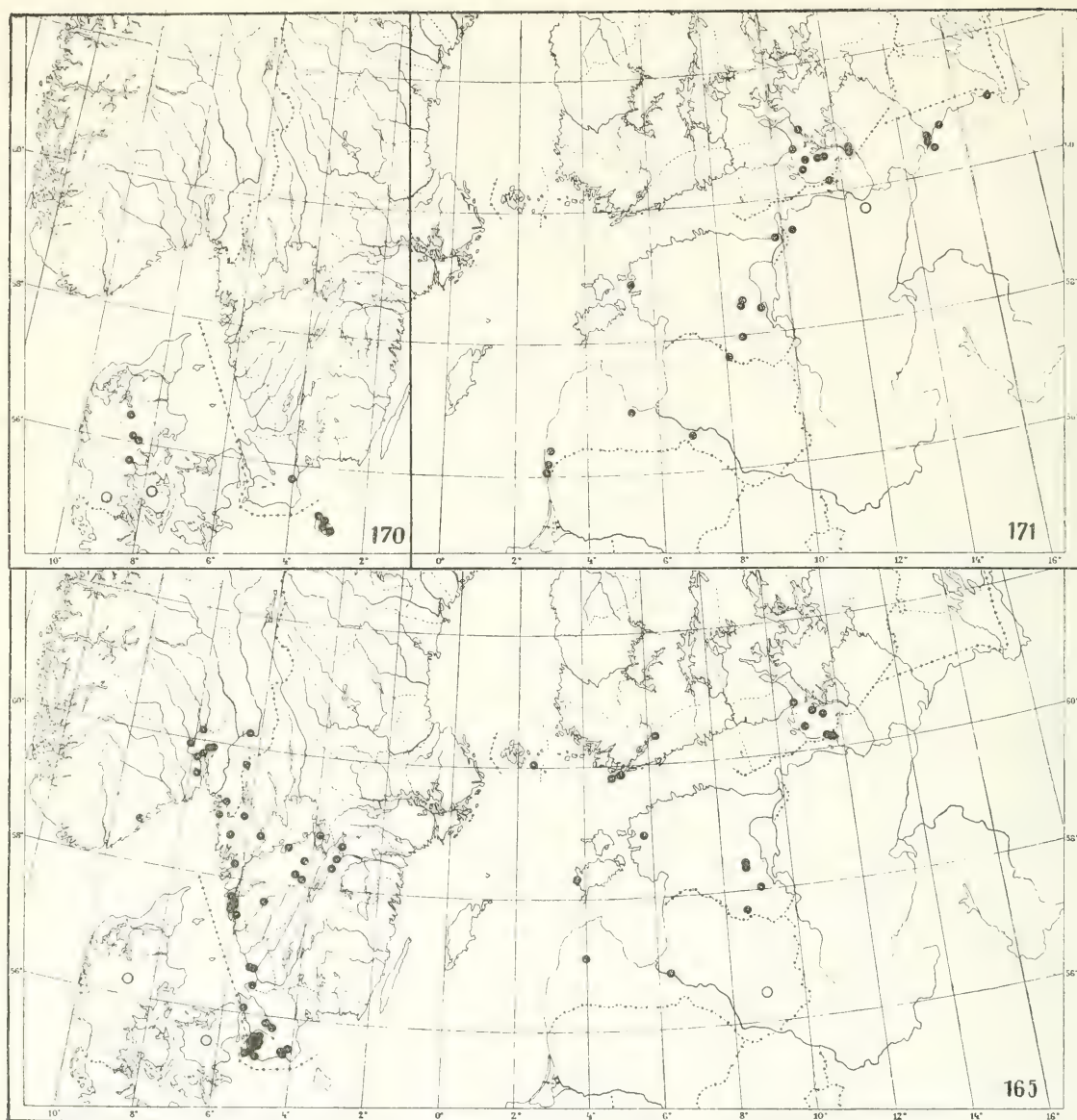
138

160. *Calosoma reticulatum* Fbr.161. *Calosoma sycophanta* L.







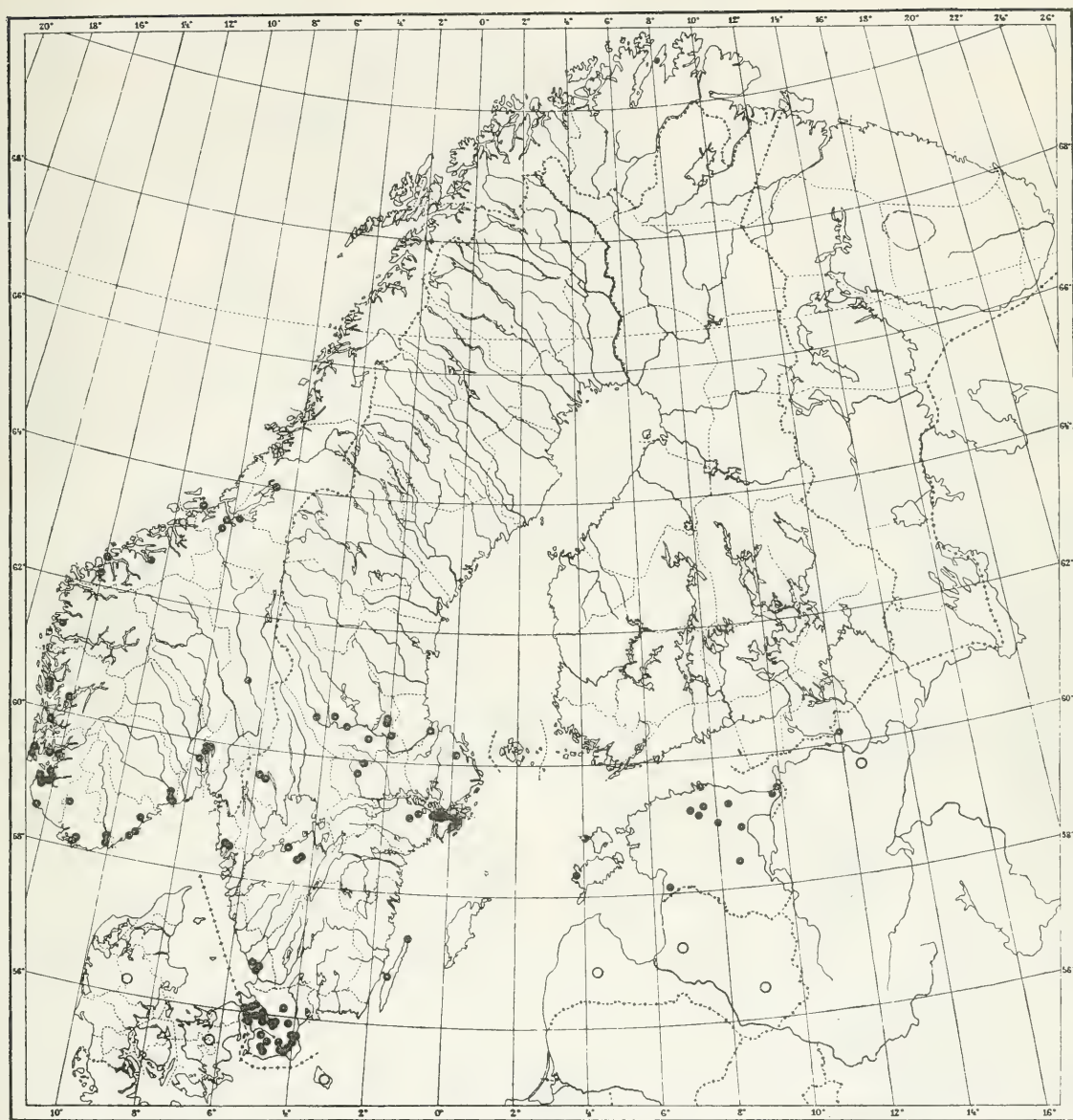


142

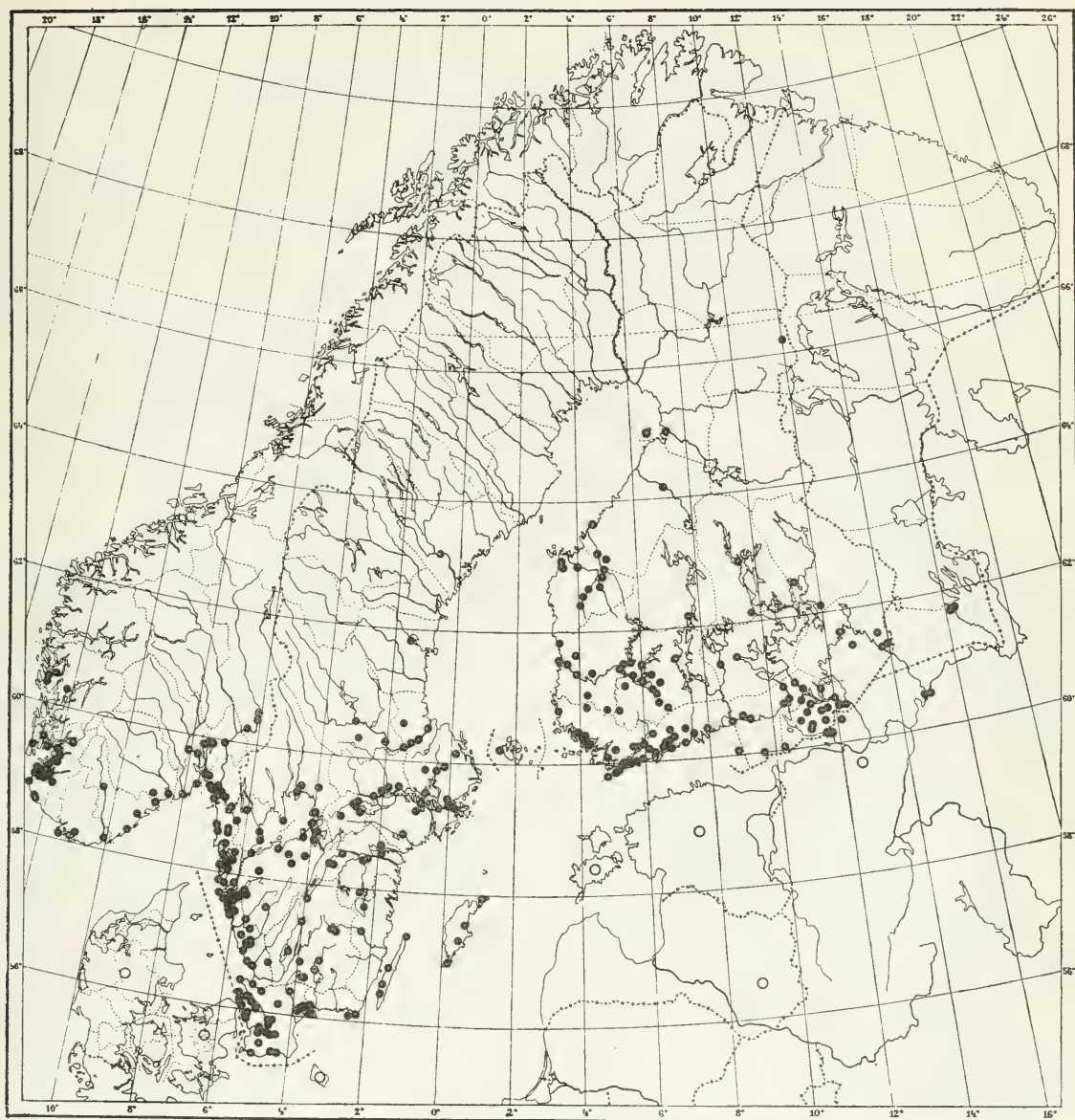
165. *Carabus convexus* Fbr.

(166-169, see pp. 137-140.)

170. *Carabus intricatus* L.171. *Carabus menetriesi* Fald.







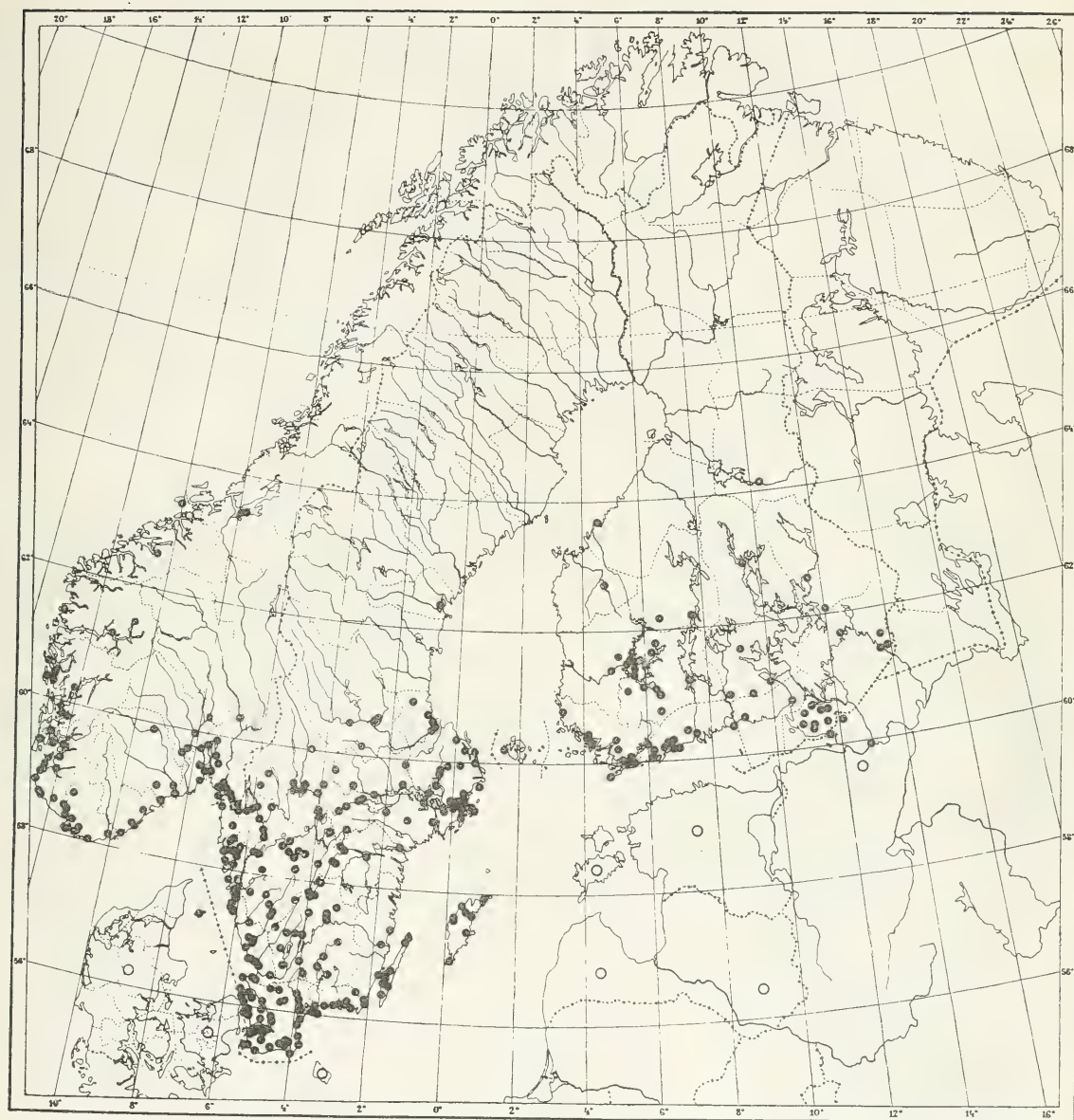
145

168. *Carabus granulatus* L.



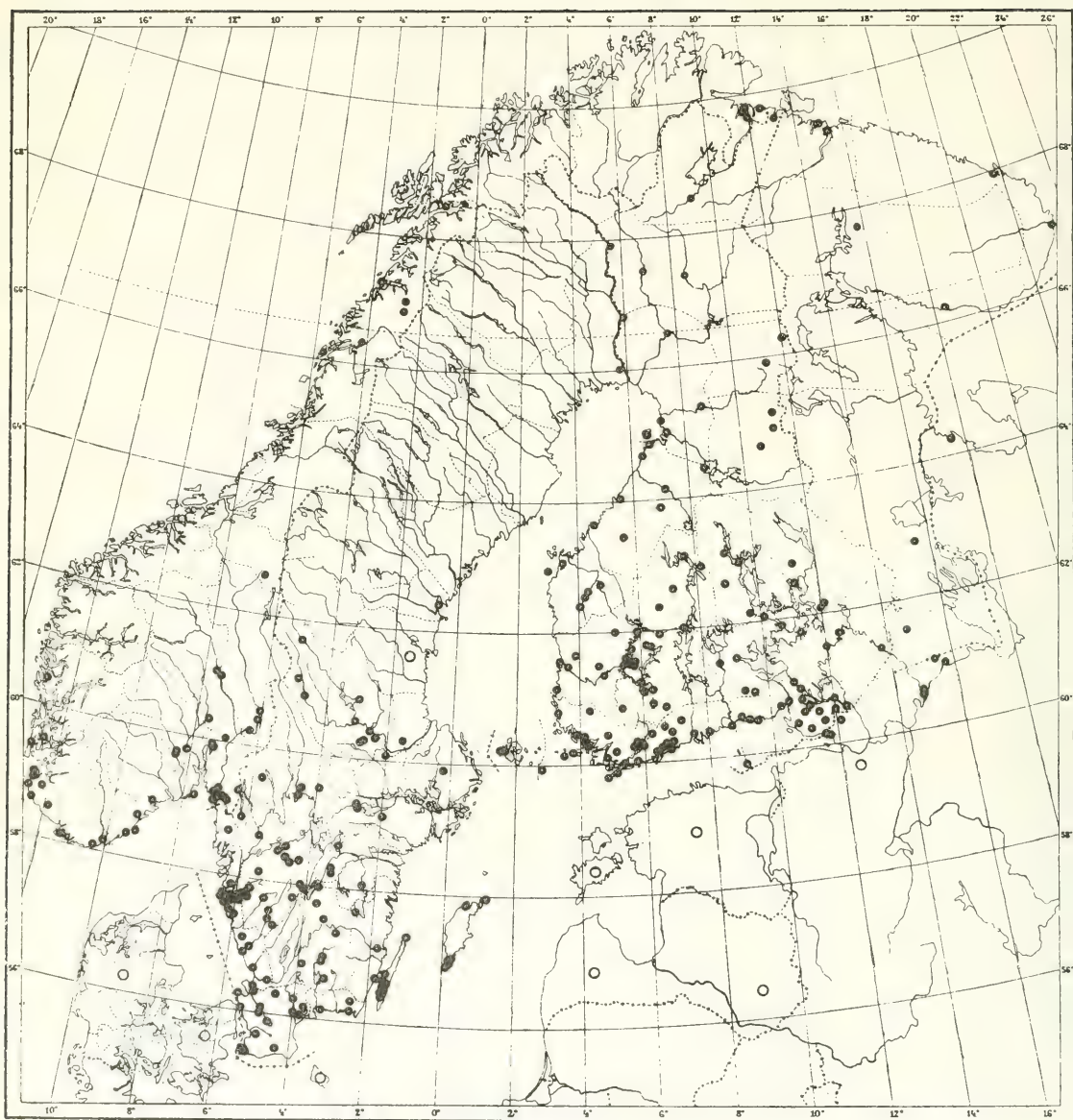
146

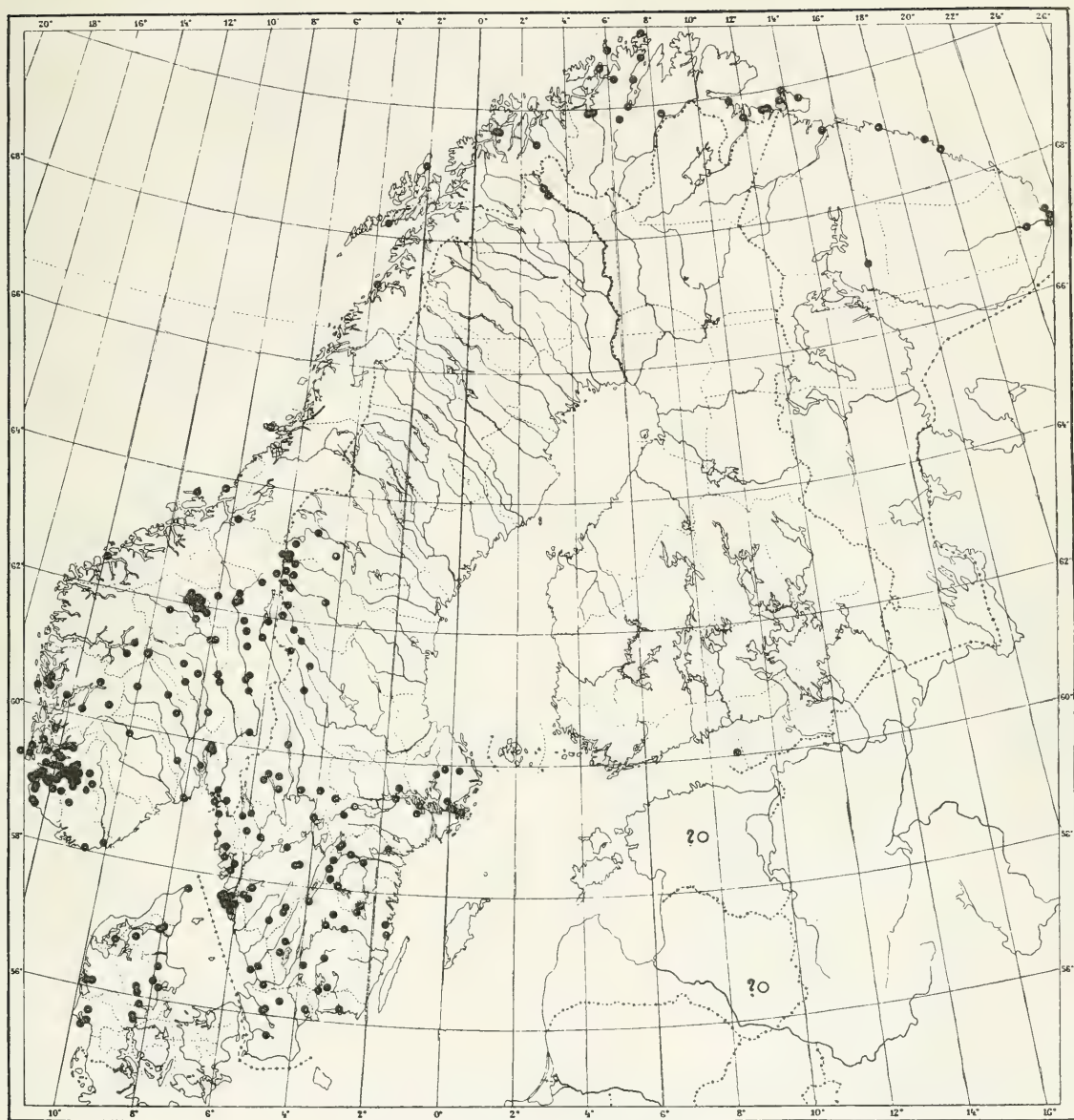
169. *Carabus hortensis* L.(170. *Carabus intricatus*, 171. *Carabus menetriesi*, see No. 165.)



147

172. *Carabus nemoralis* Müll.





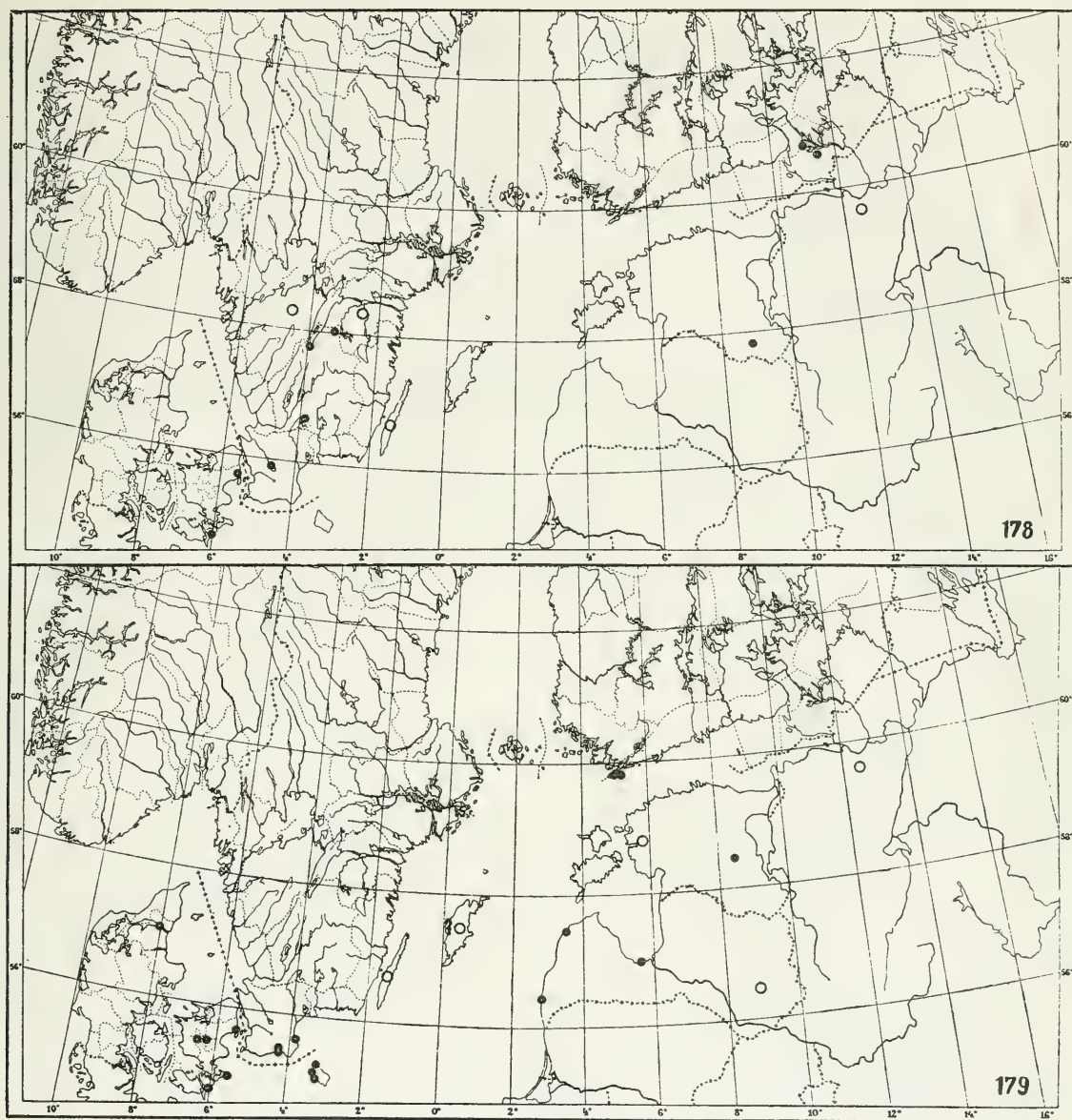




151

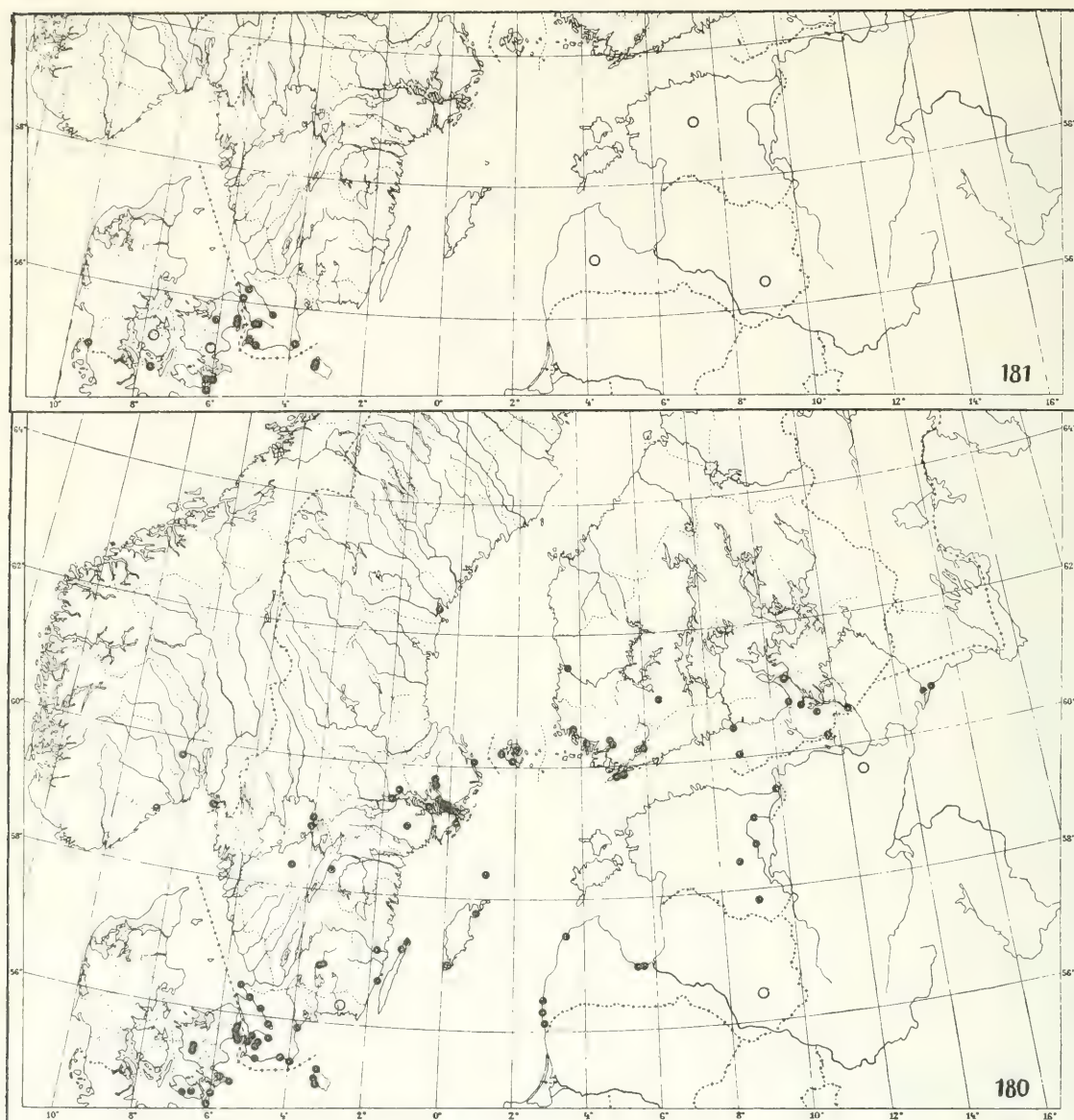
176. *Chlaenius costulatus* Motsch.

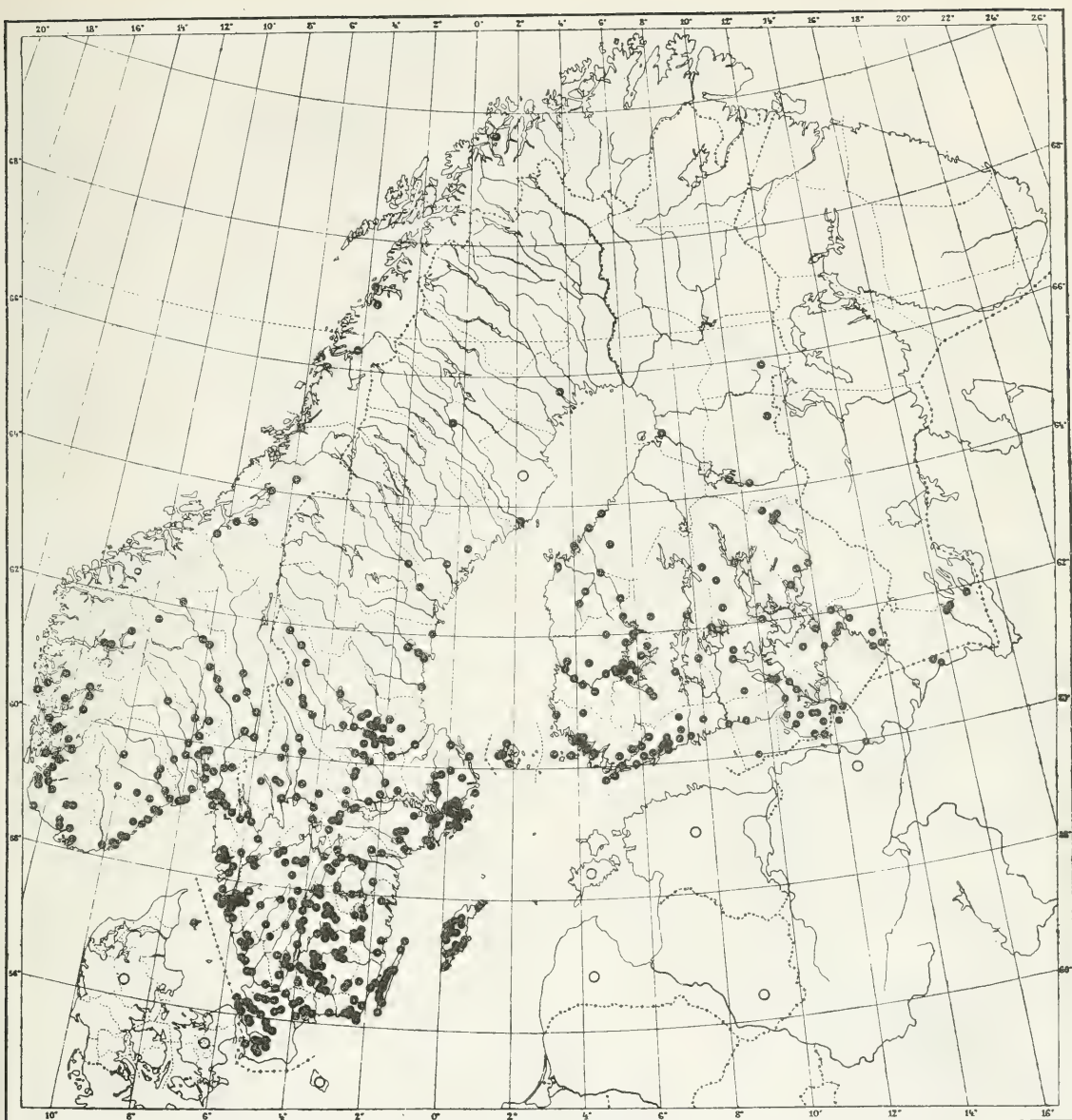


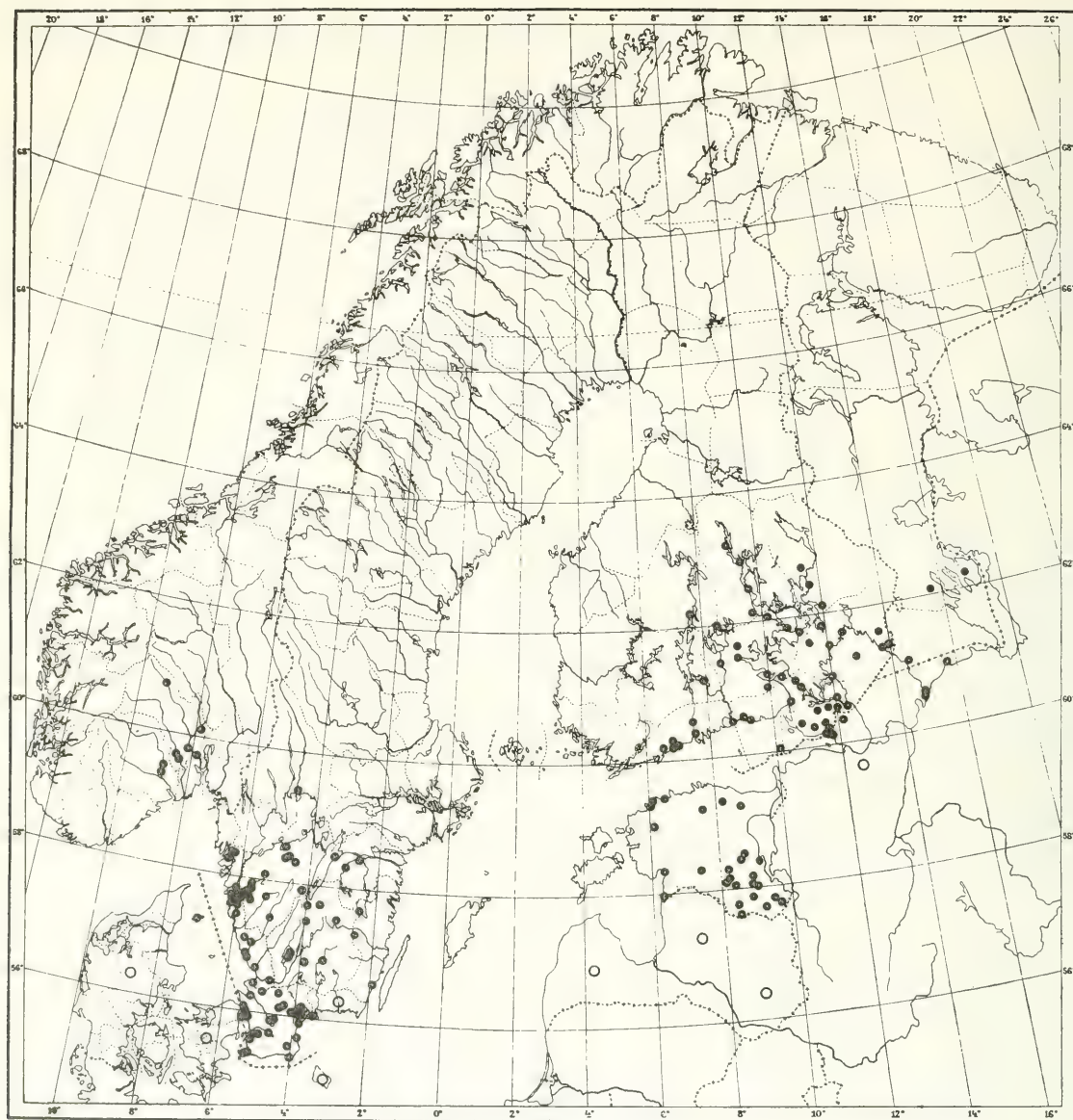


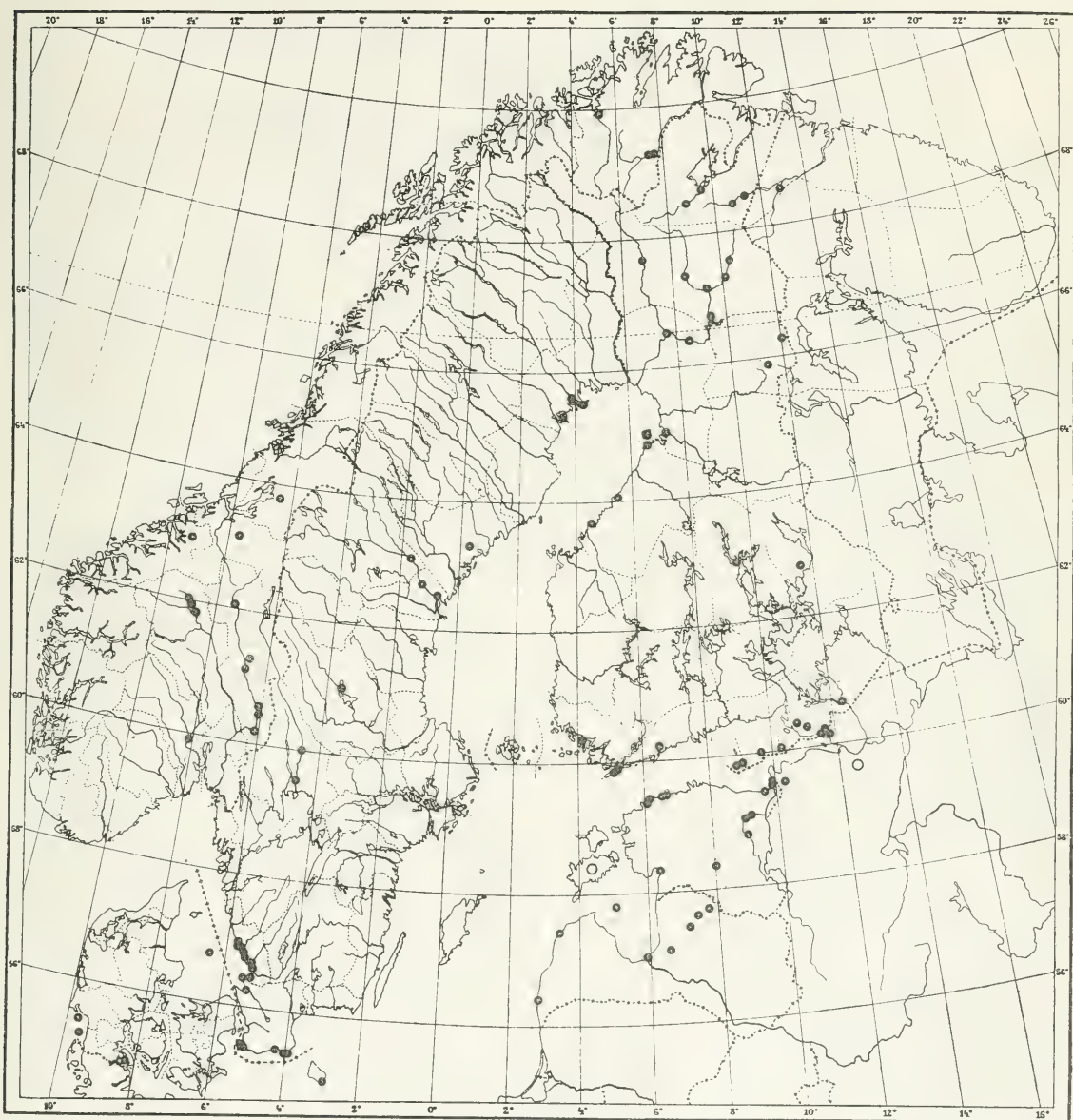
153

178. *Chlaenius quadrisulcatus* Payk.179. *Chlaenius sulcicollis* Payk.









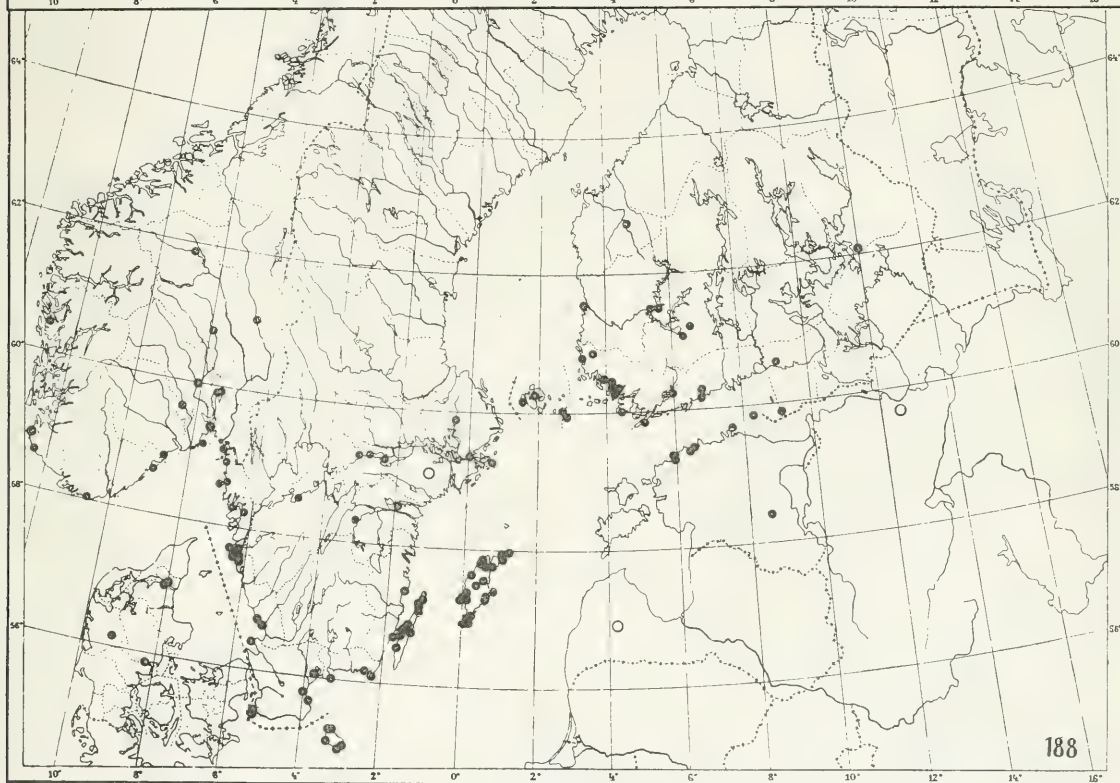
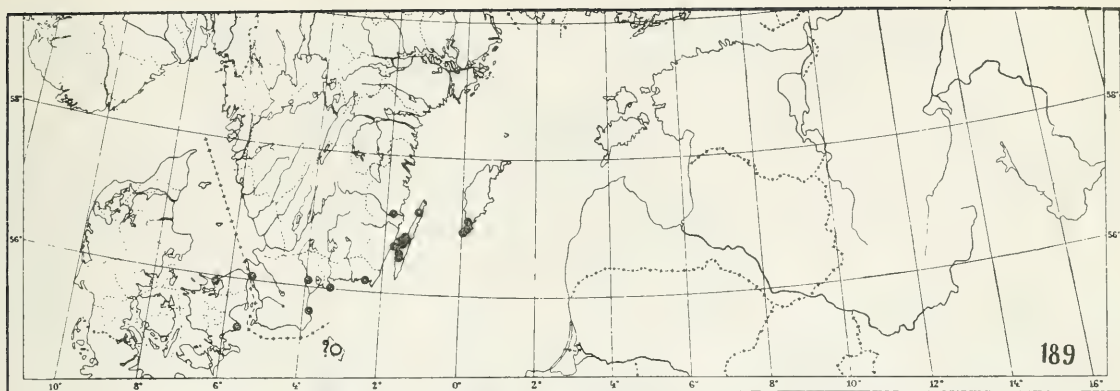




159

186. *Clivina fossor* L.

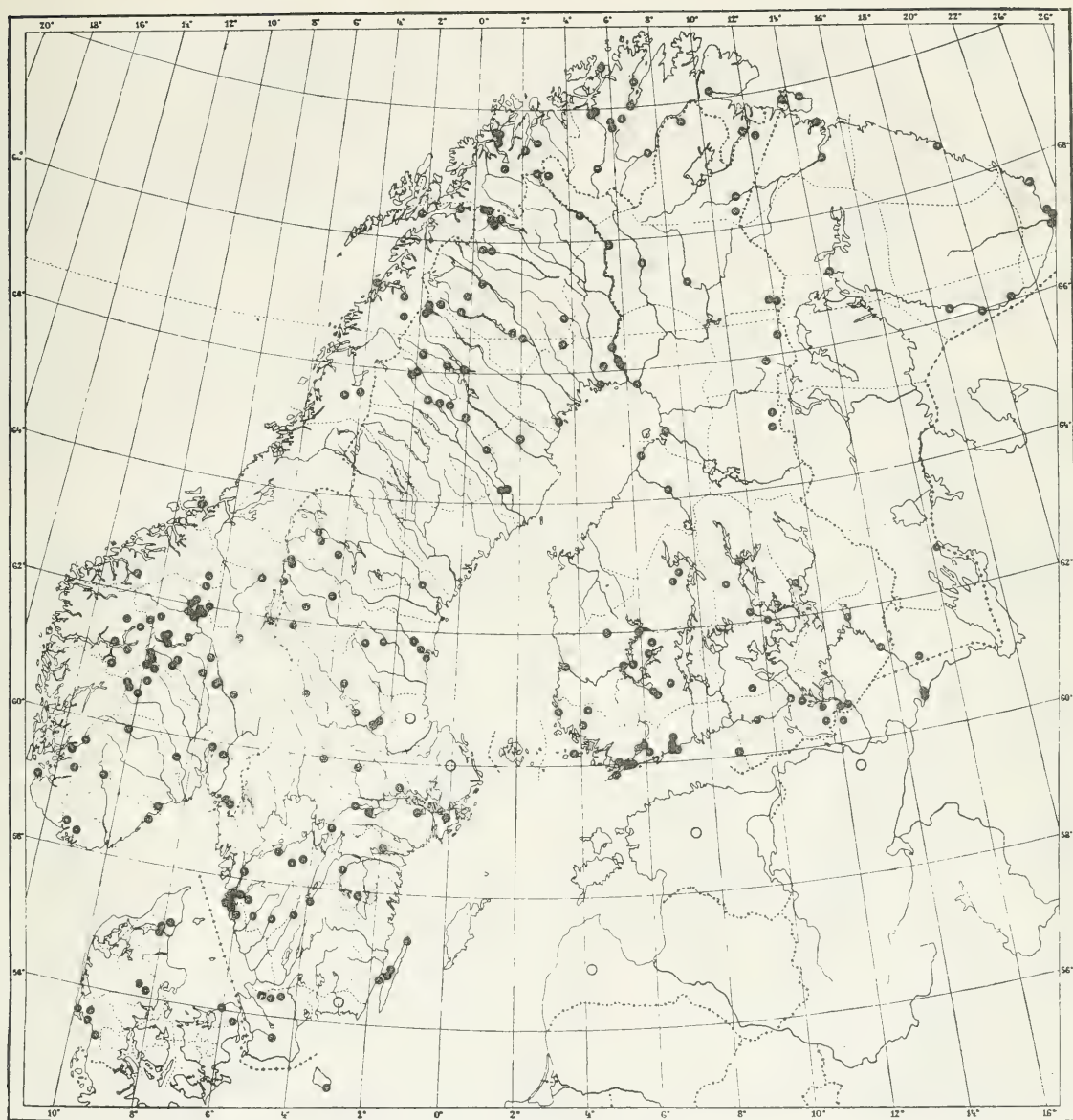




161

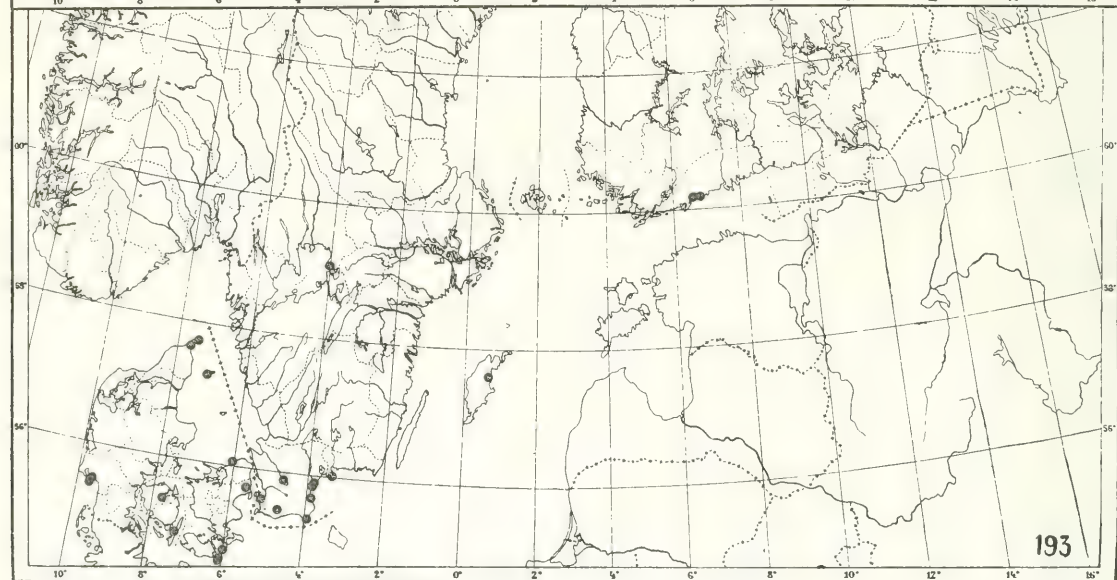
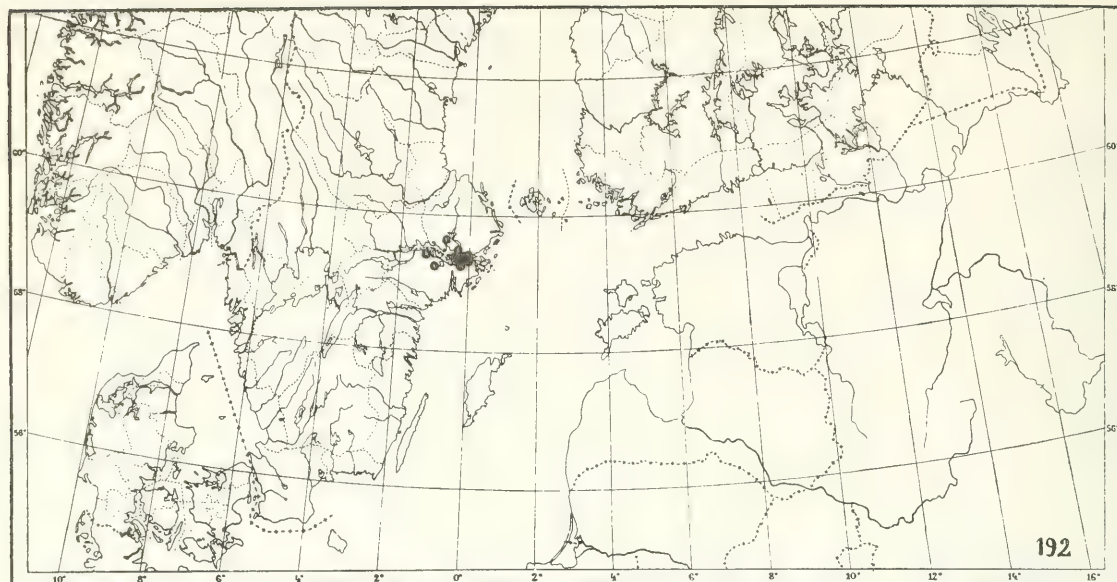
188. *Cymindis angularis* Gyll.189. *Cymindis humeralis* G.-F.





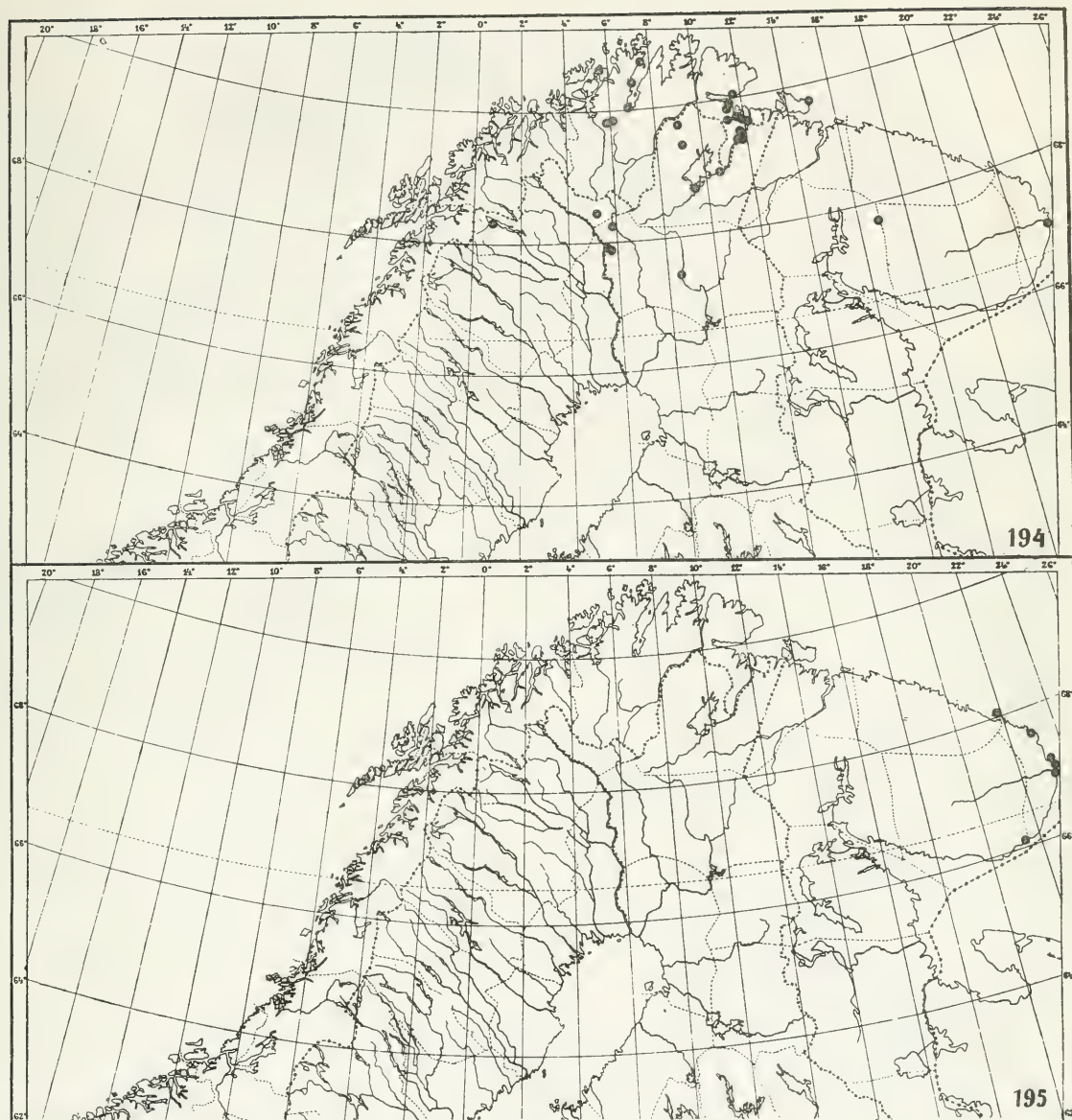
163

191. *Cymindis vaporariorum* L.



164

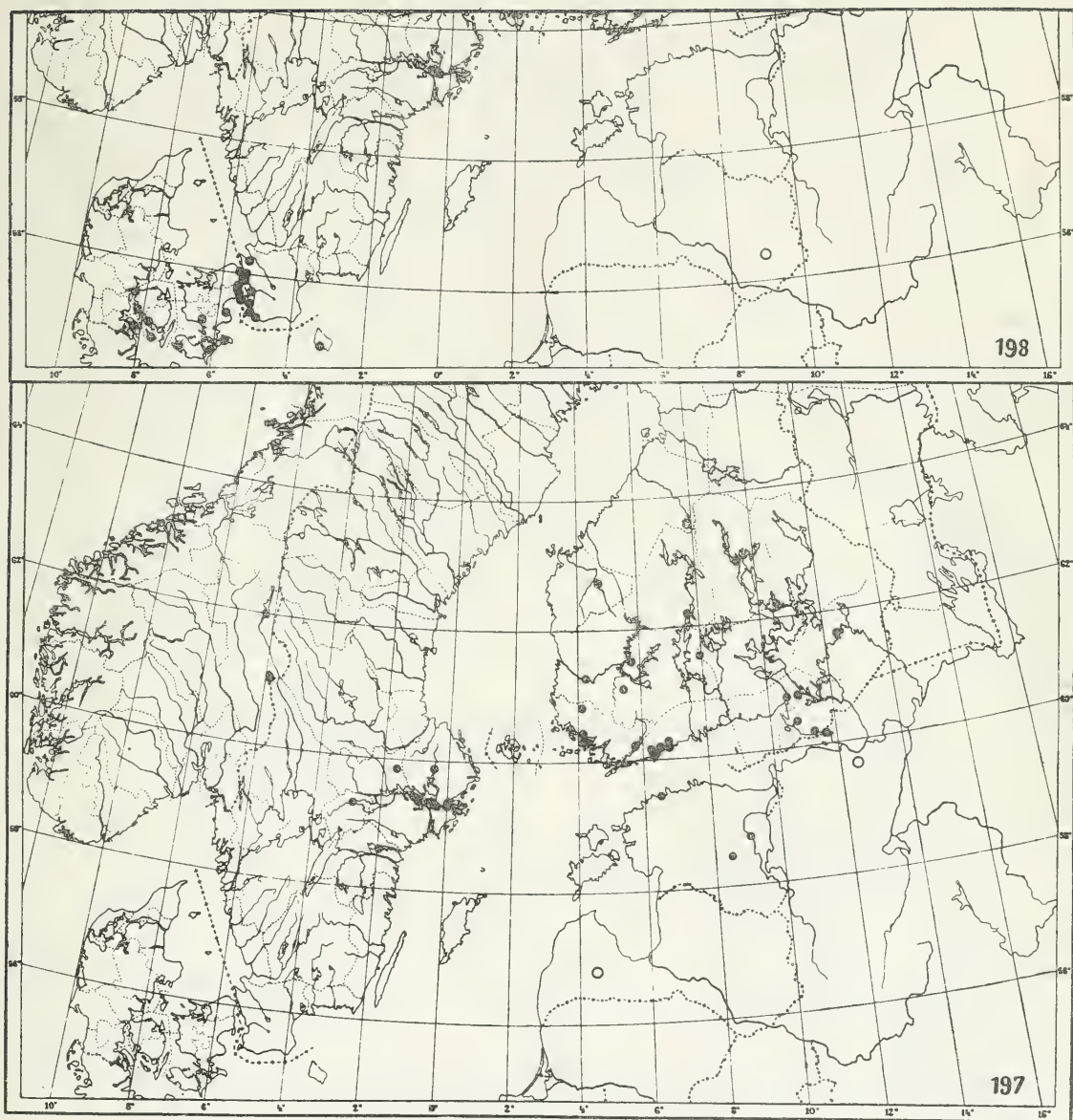
192. *Demetrias imperialis* Germ.193. *Demetrias monostigma* Sam.



165

194. *Diachila arctica* Gyll.195. *Diachila polita* Fald.

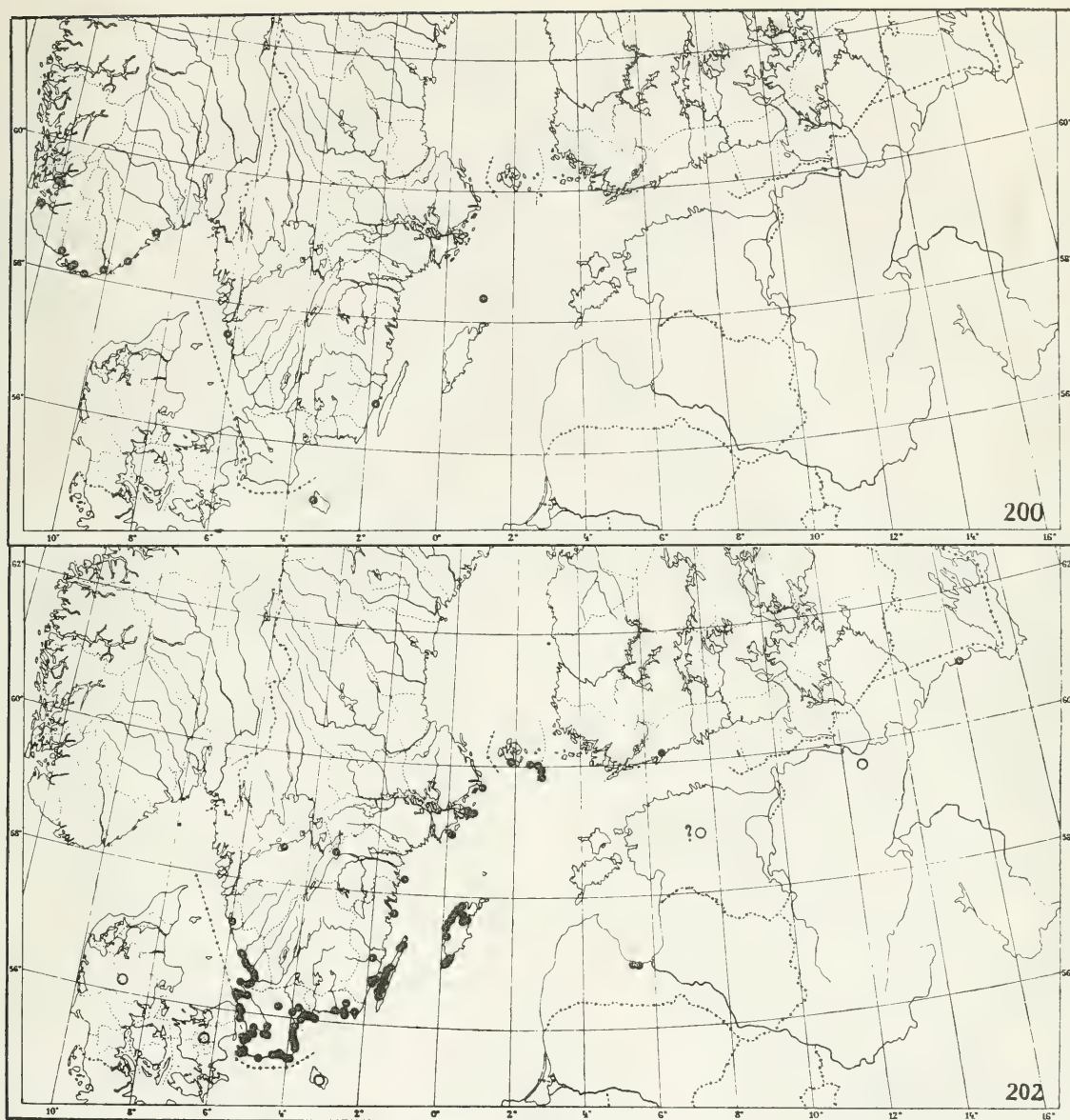




167

197. *Dichirotrichus rufithorax* C.R. Sahlb.198. *Dolichus halensis* Schall.





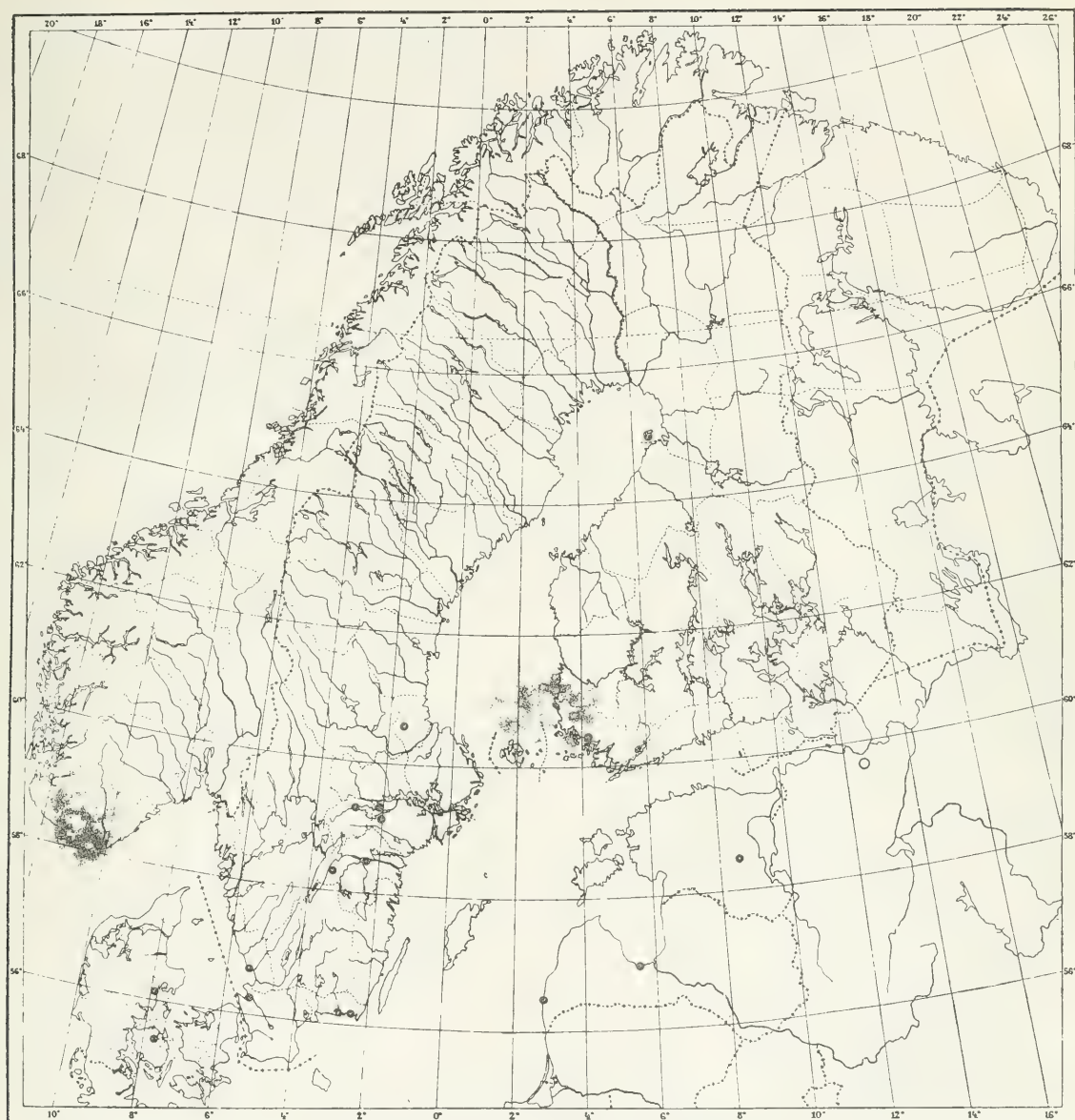
169

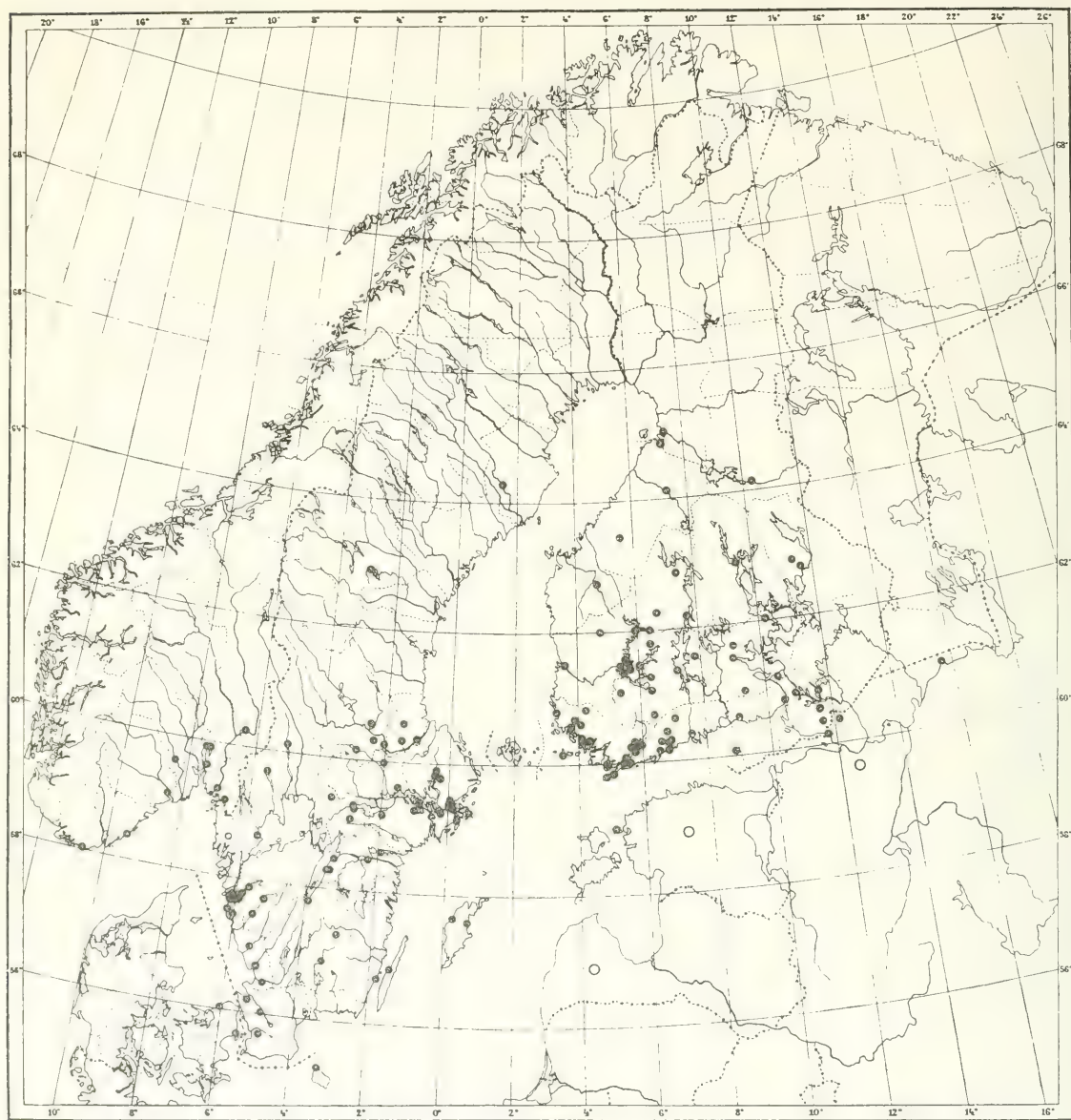
200. *Dromius angustus* Brull.(201. *Dromius fenestratus*, see p. 164.)202. *Dromius linearis* Ol.

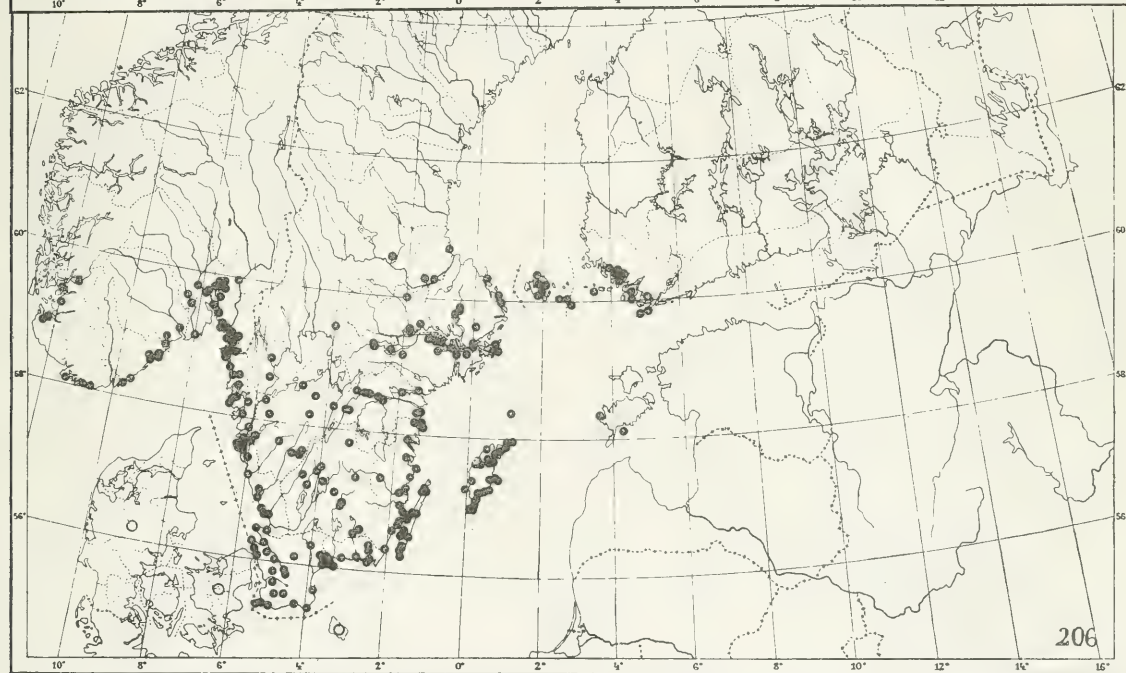
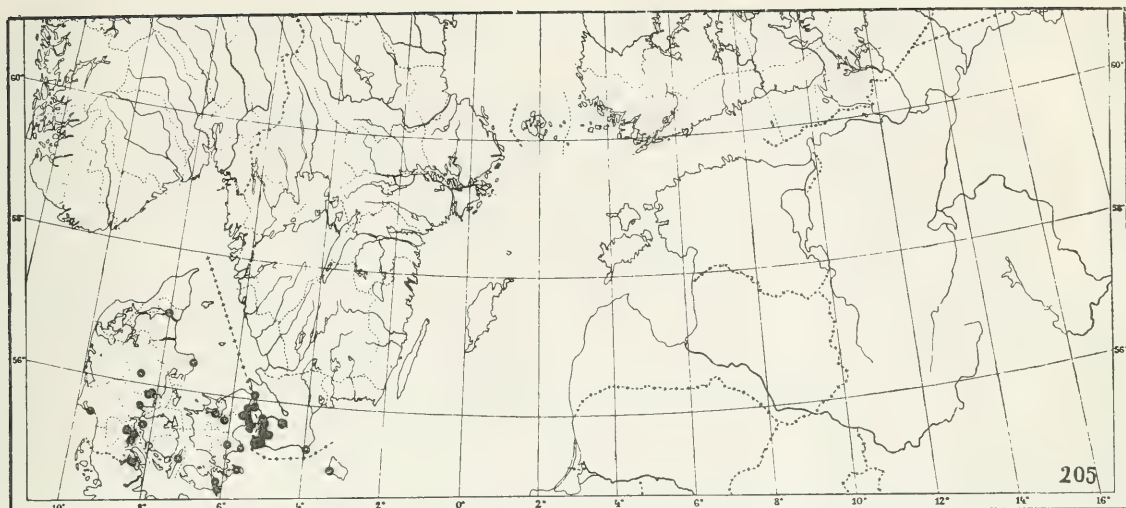


170

201. *Dromius fenestratus* Fbr.(202. *Dromius linearis*, see p. 163.)



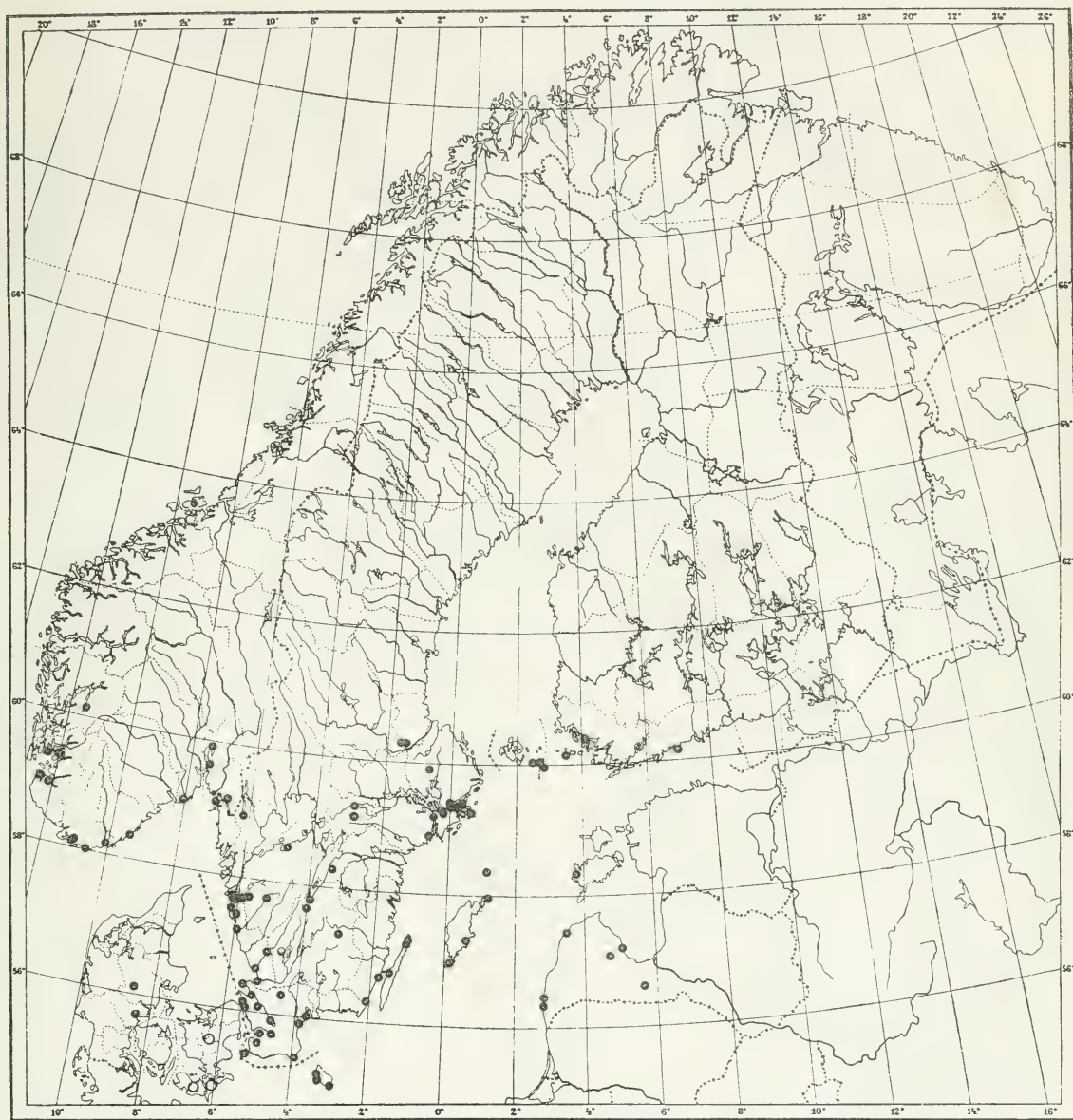




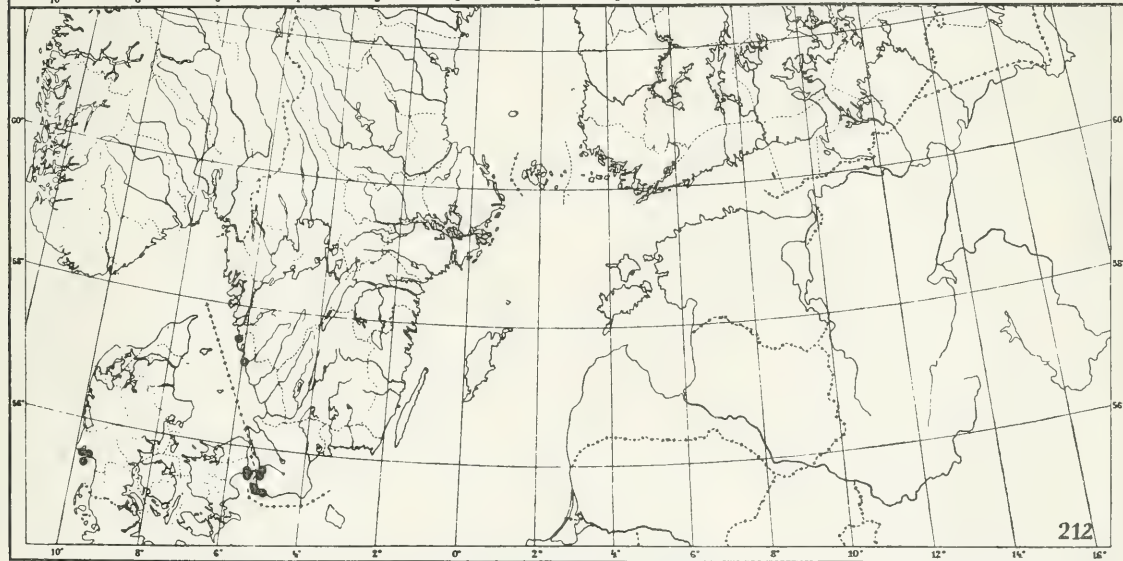
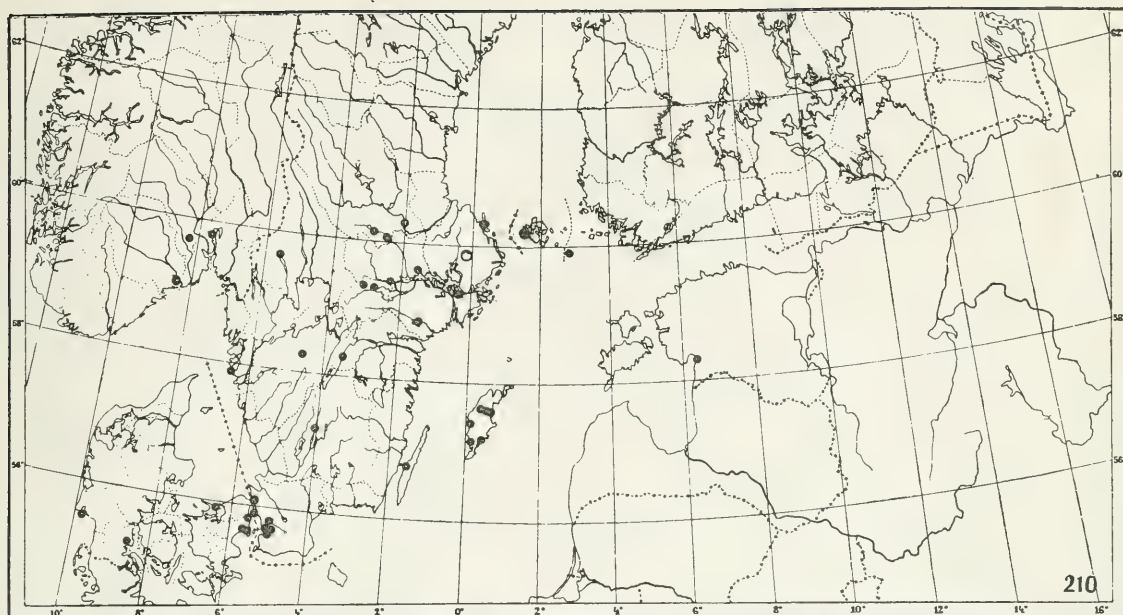
173

205. *Dromius melanocephalus* Dej.206. *Dromius nigriventris* Thoms.





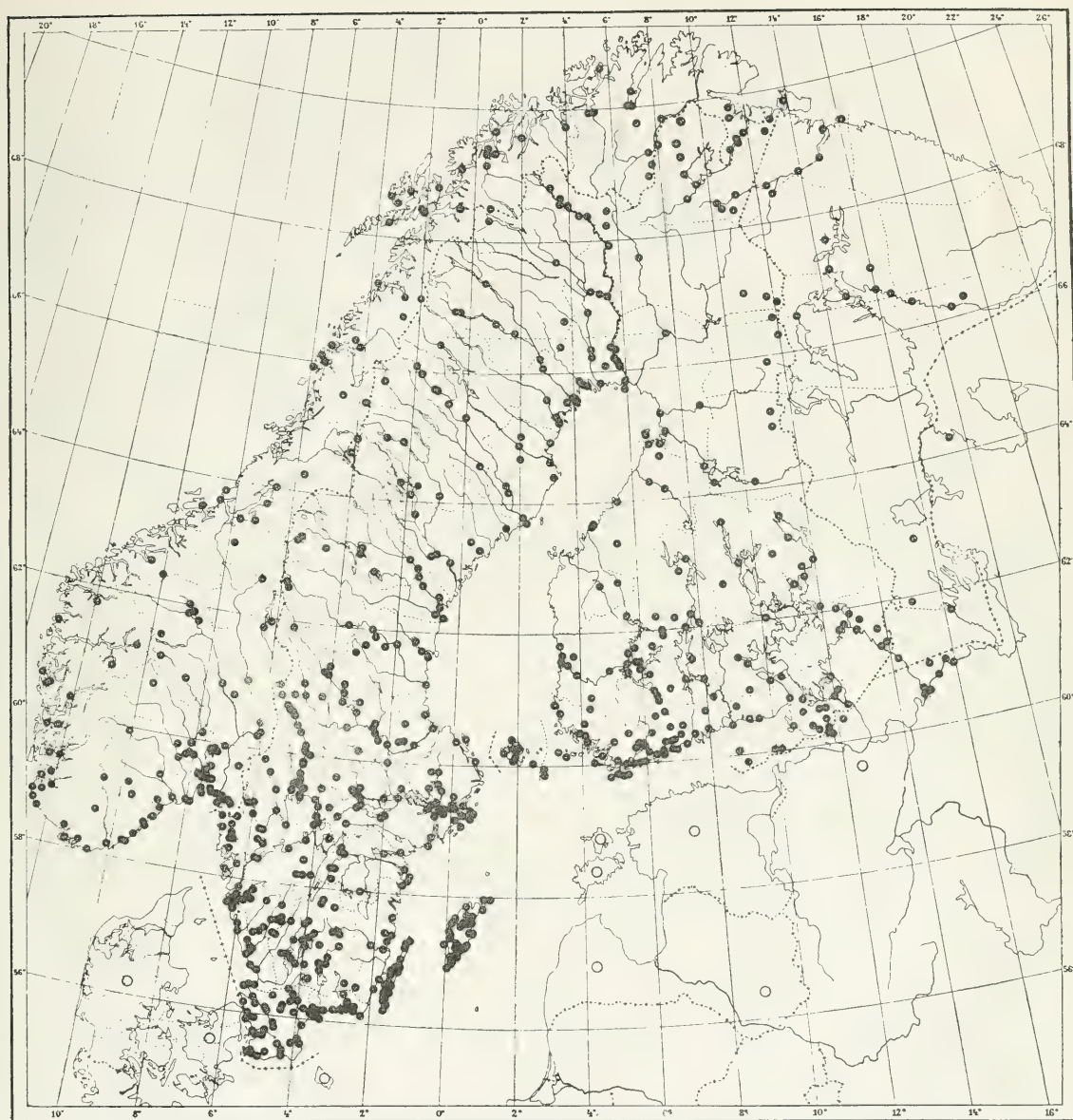




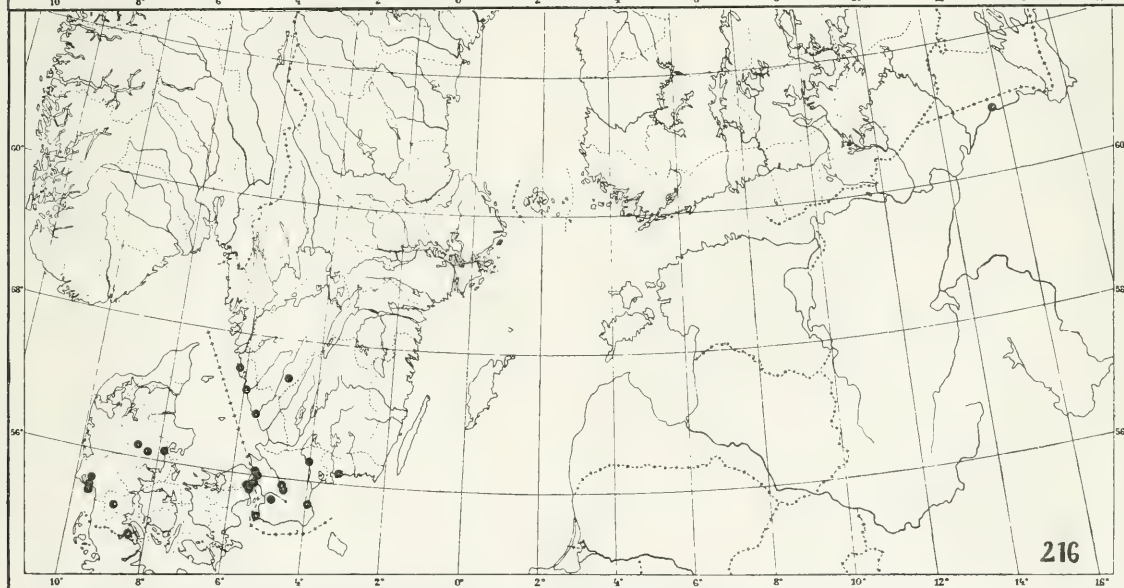
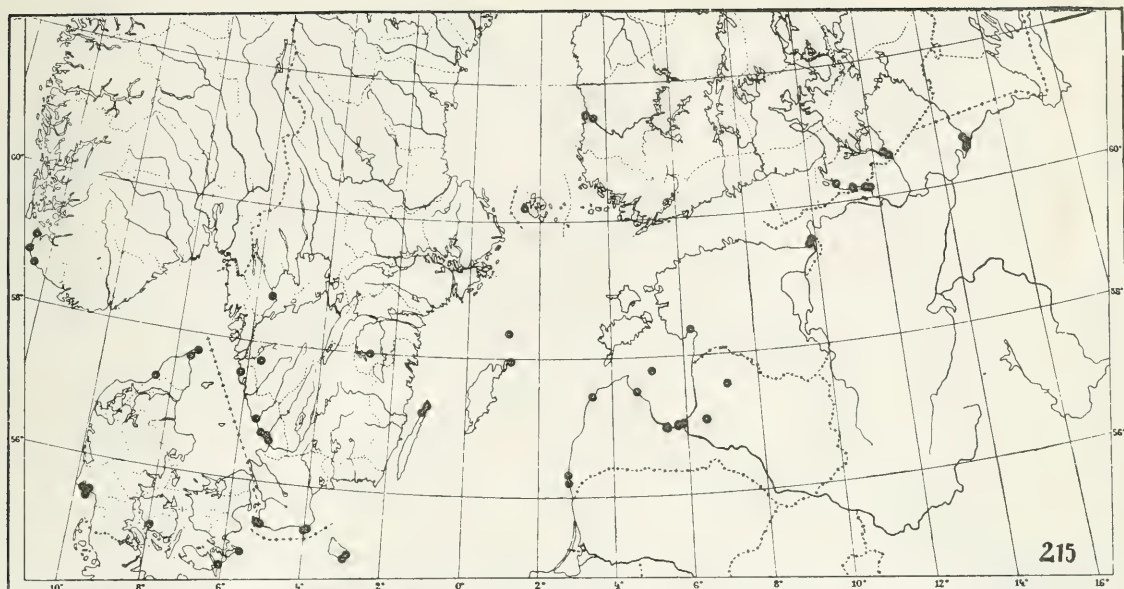


178

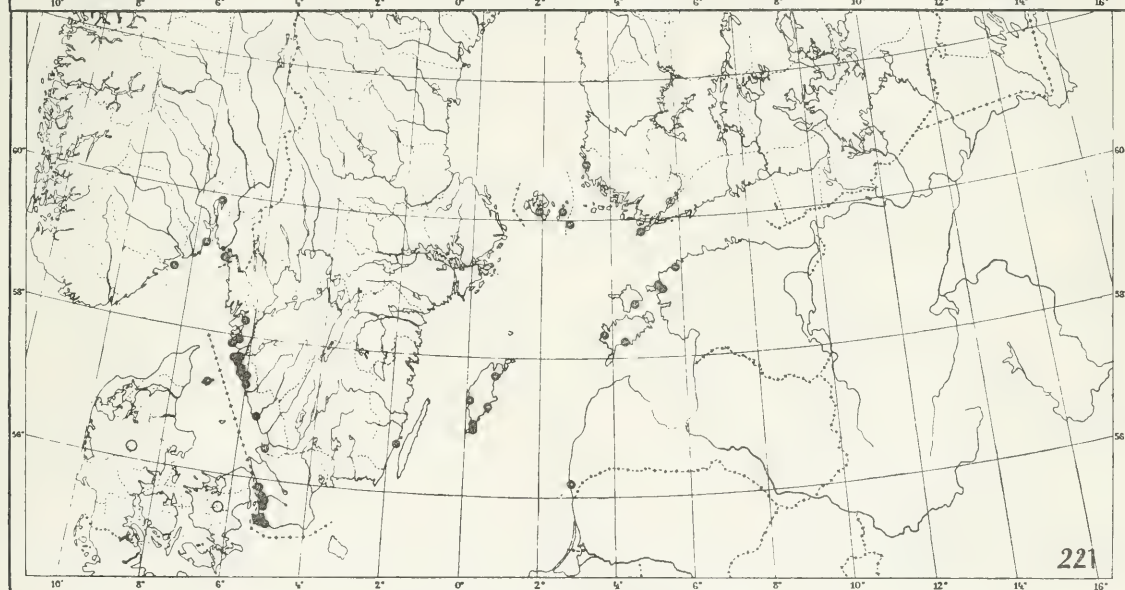
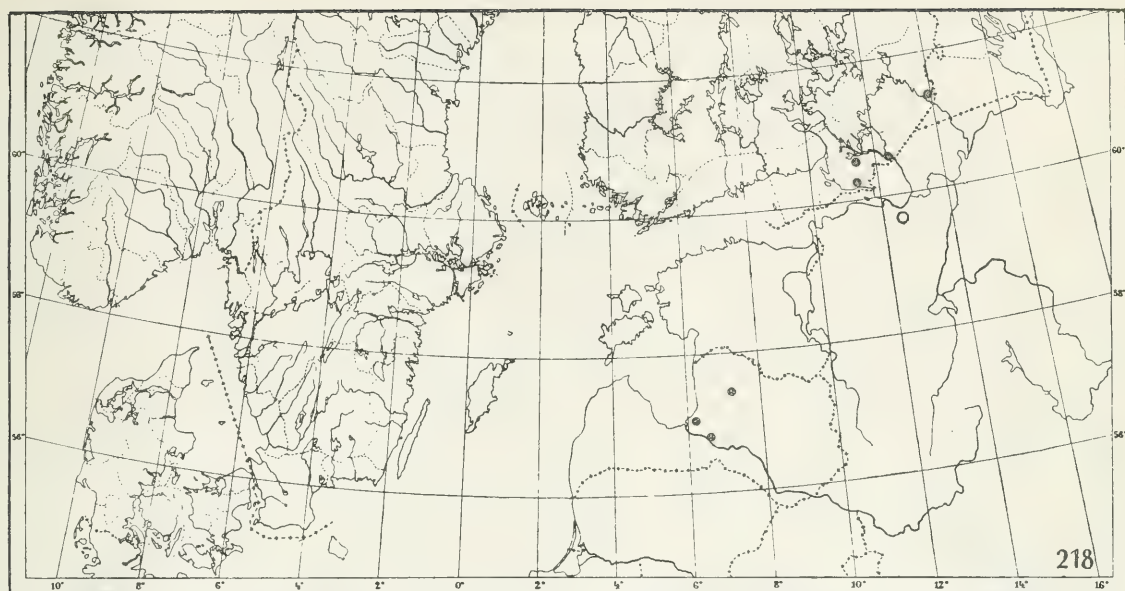
211. *Dyschirius angustatus* Ahr.(212. *Dyschirius chalcus*, see p. 171)







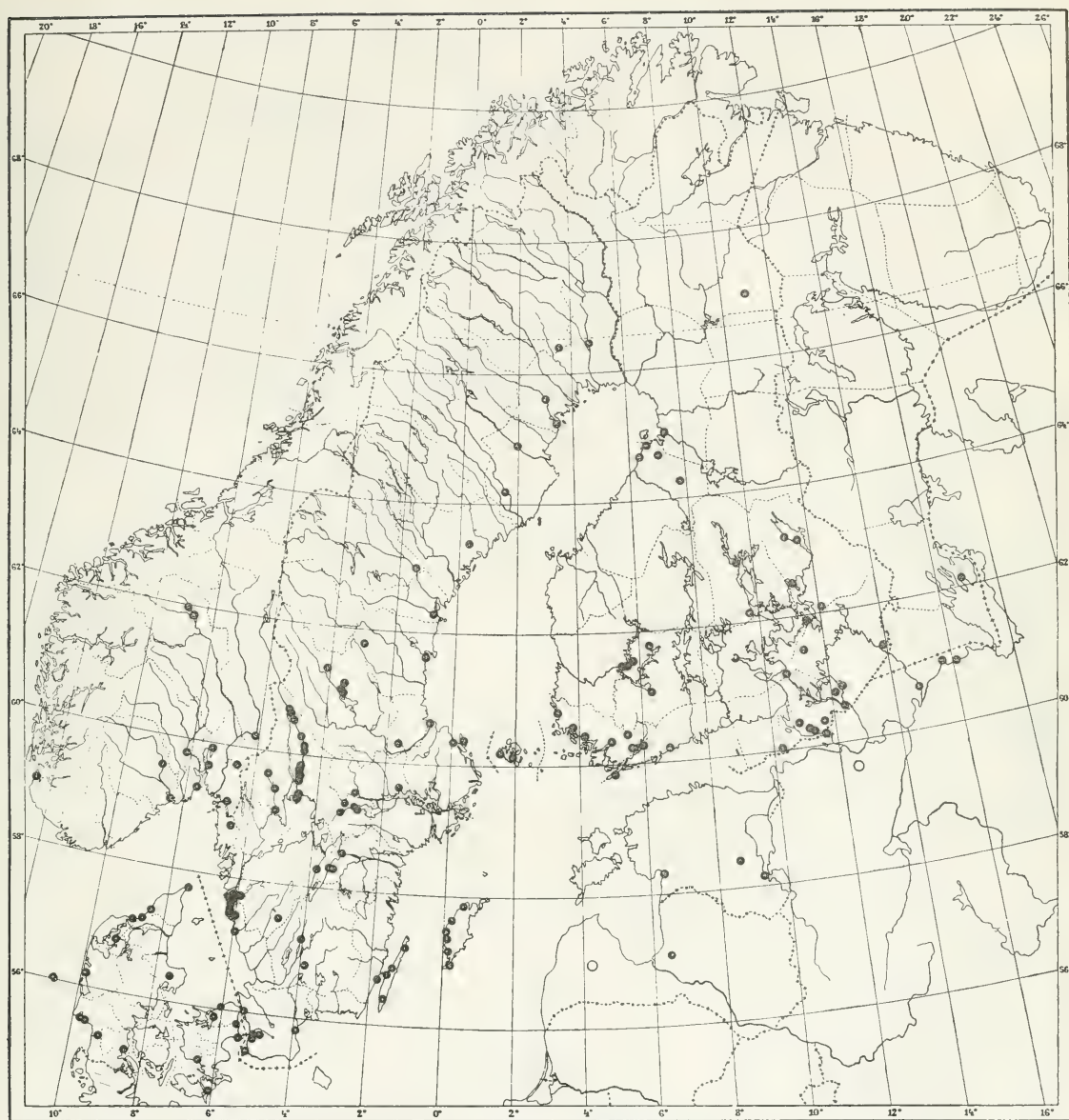




183

218. *Dyschirius nitidus* Dej.(219. *Dyschirius obscurus*. 220. *Dyschirius politus*, see pp. 178, 179.)221. *Dyschirius salinus* Schaum.

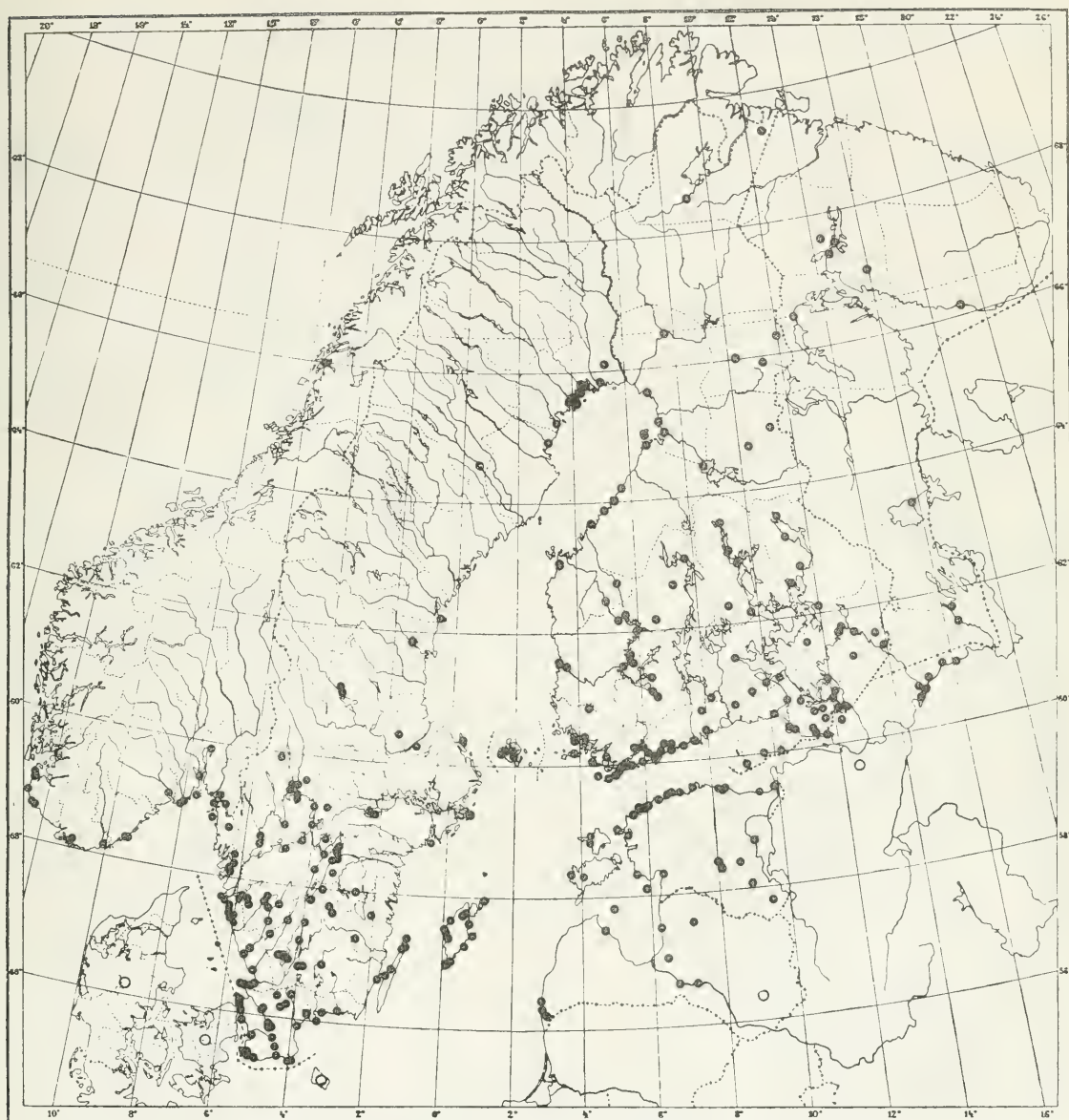




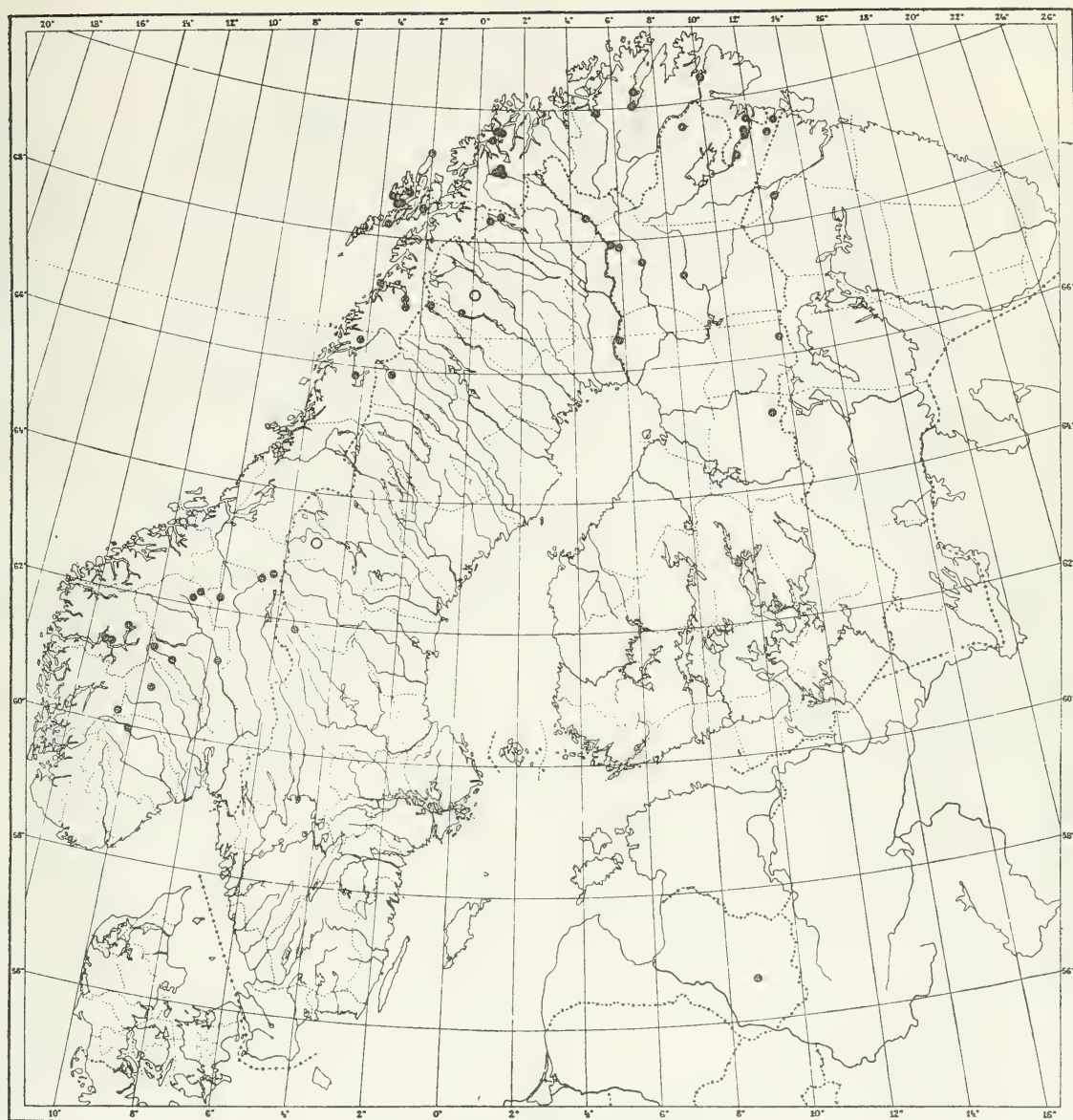
185

220. *Dyschirius politus* Dej.
(221. *Dyschirius salinus*, see No. 218.)

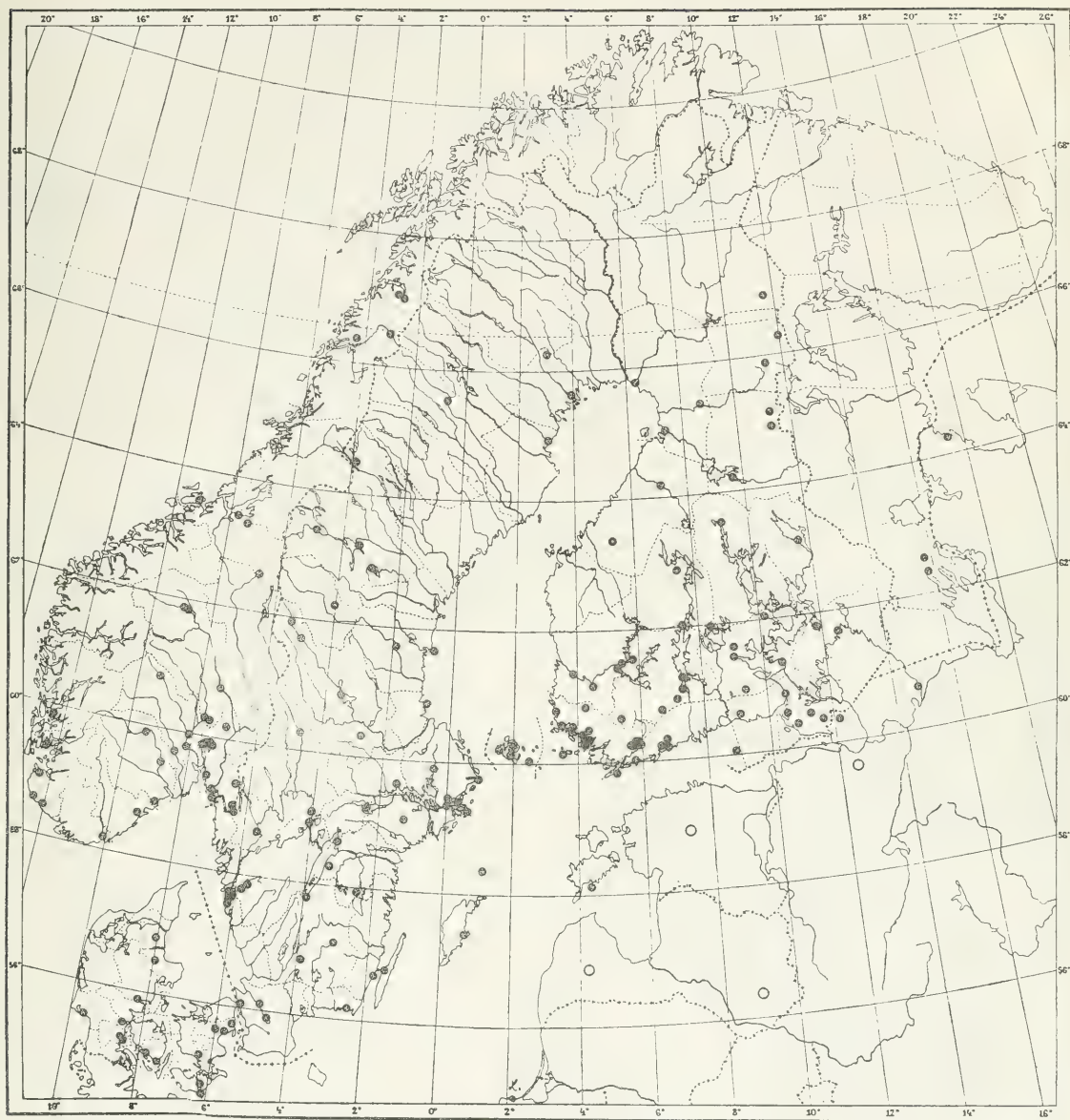




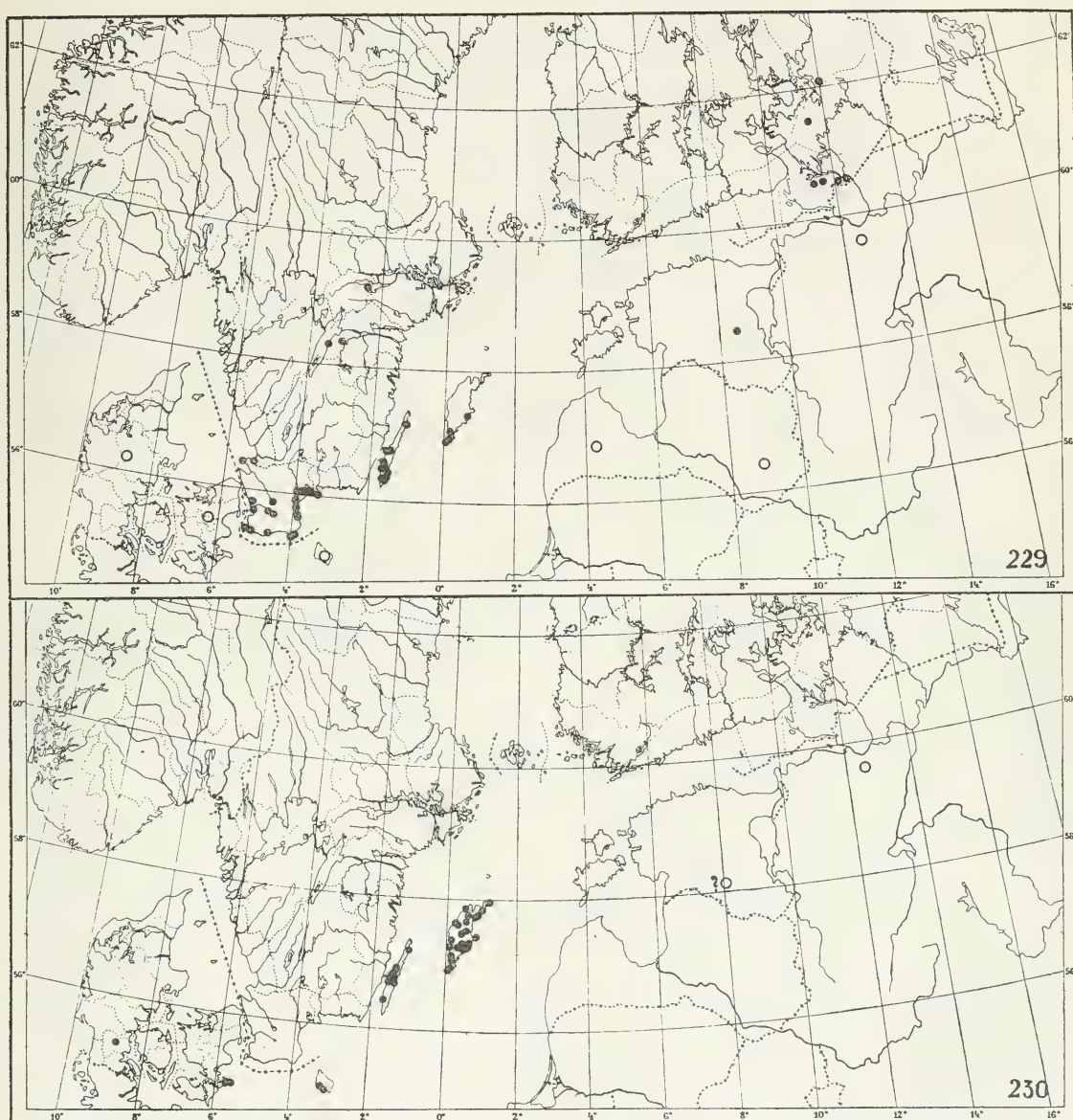








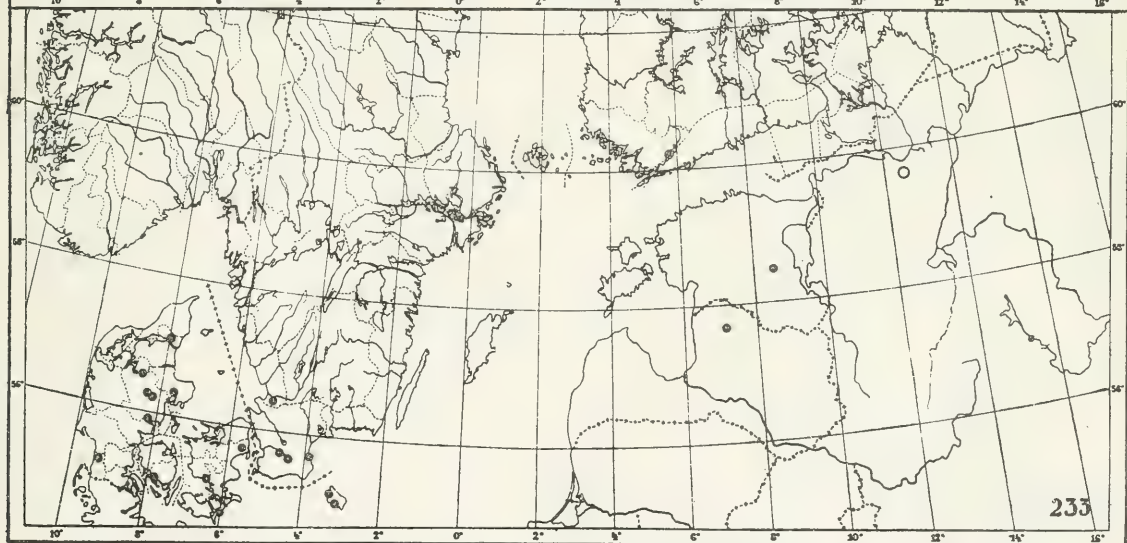
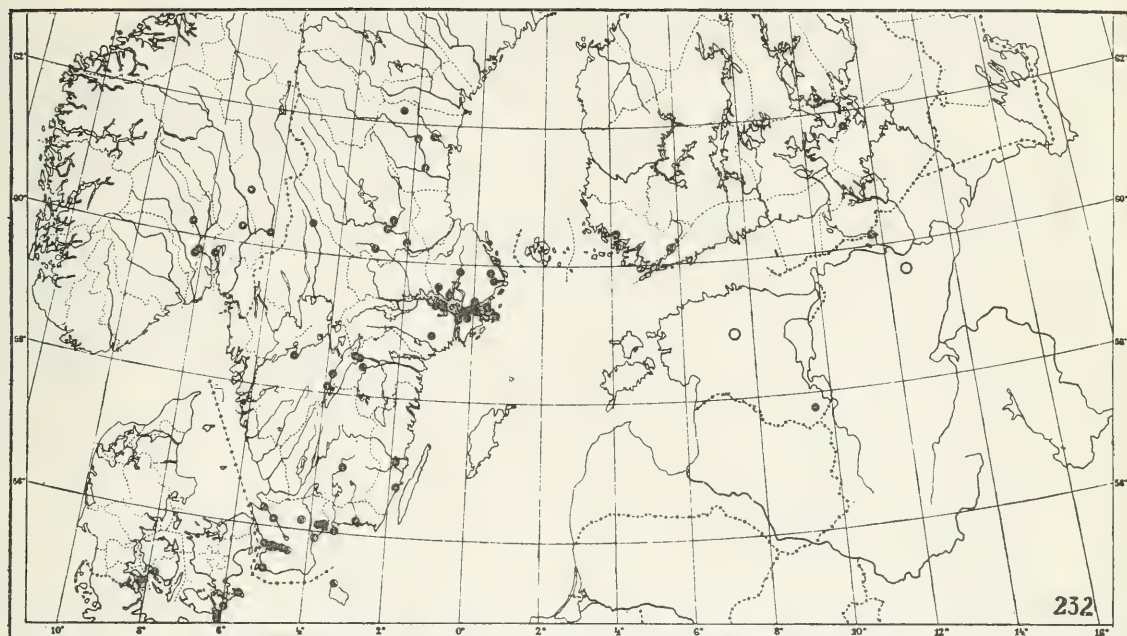




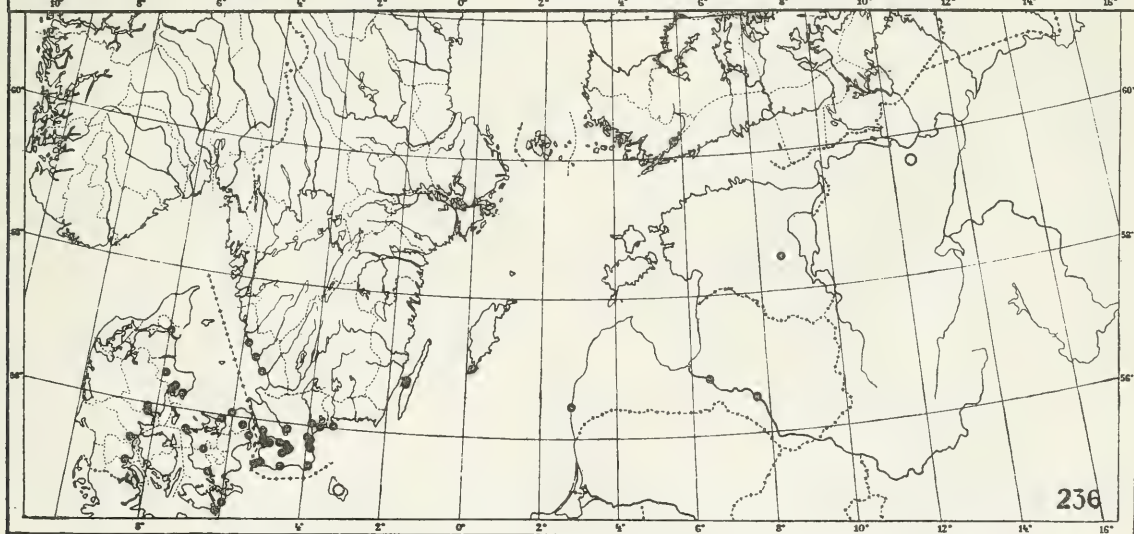
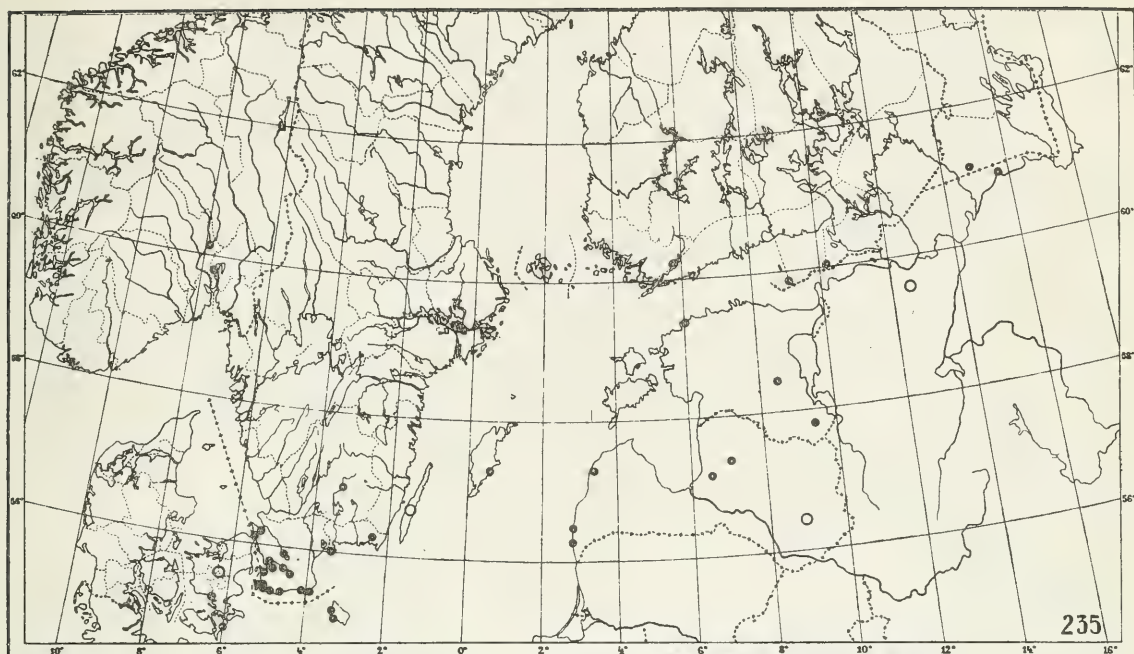
193

229. *Harpalus anxius* Dft.230. *Harpalus (Ophonus) azureus* Fbr.

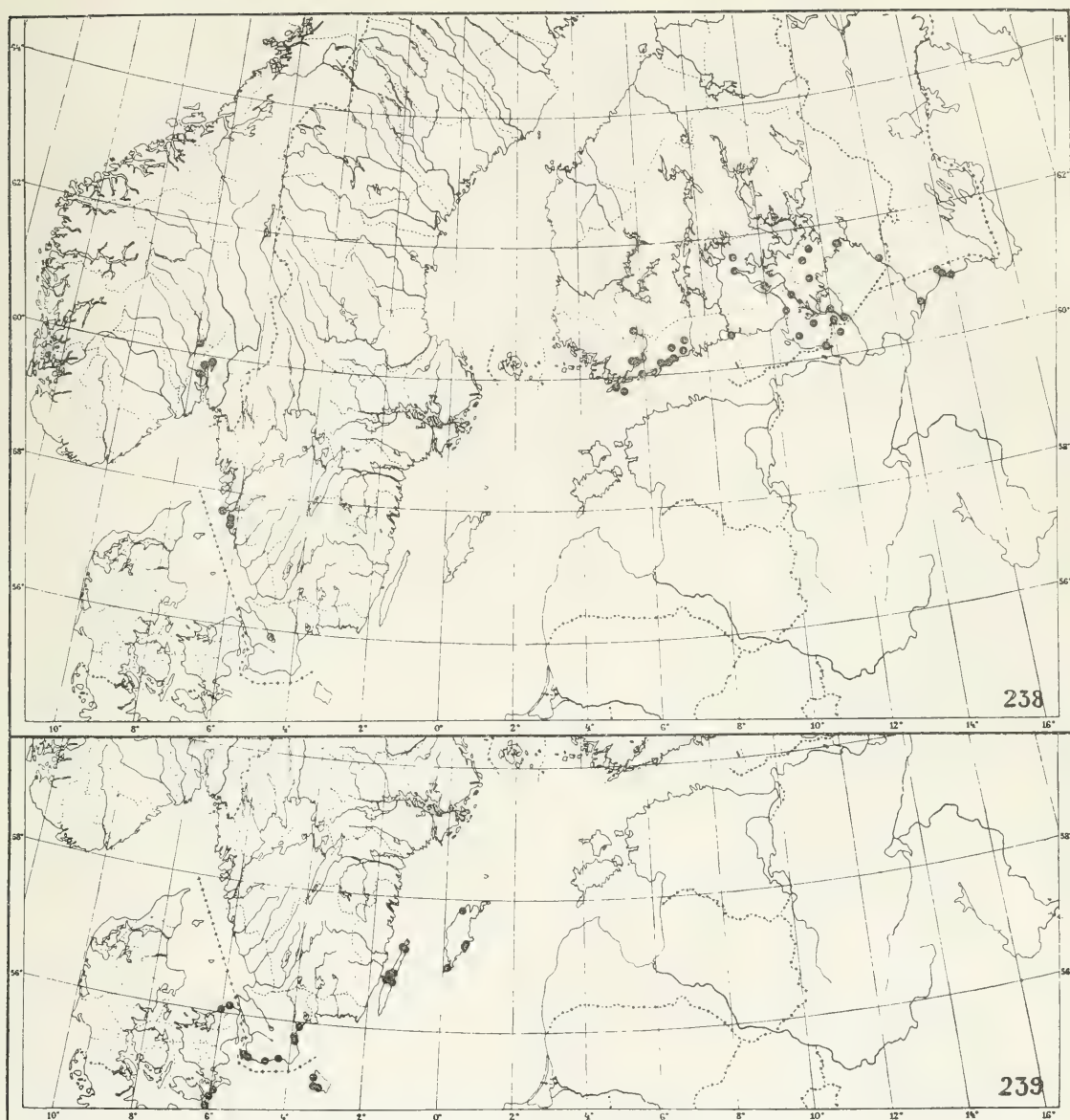






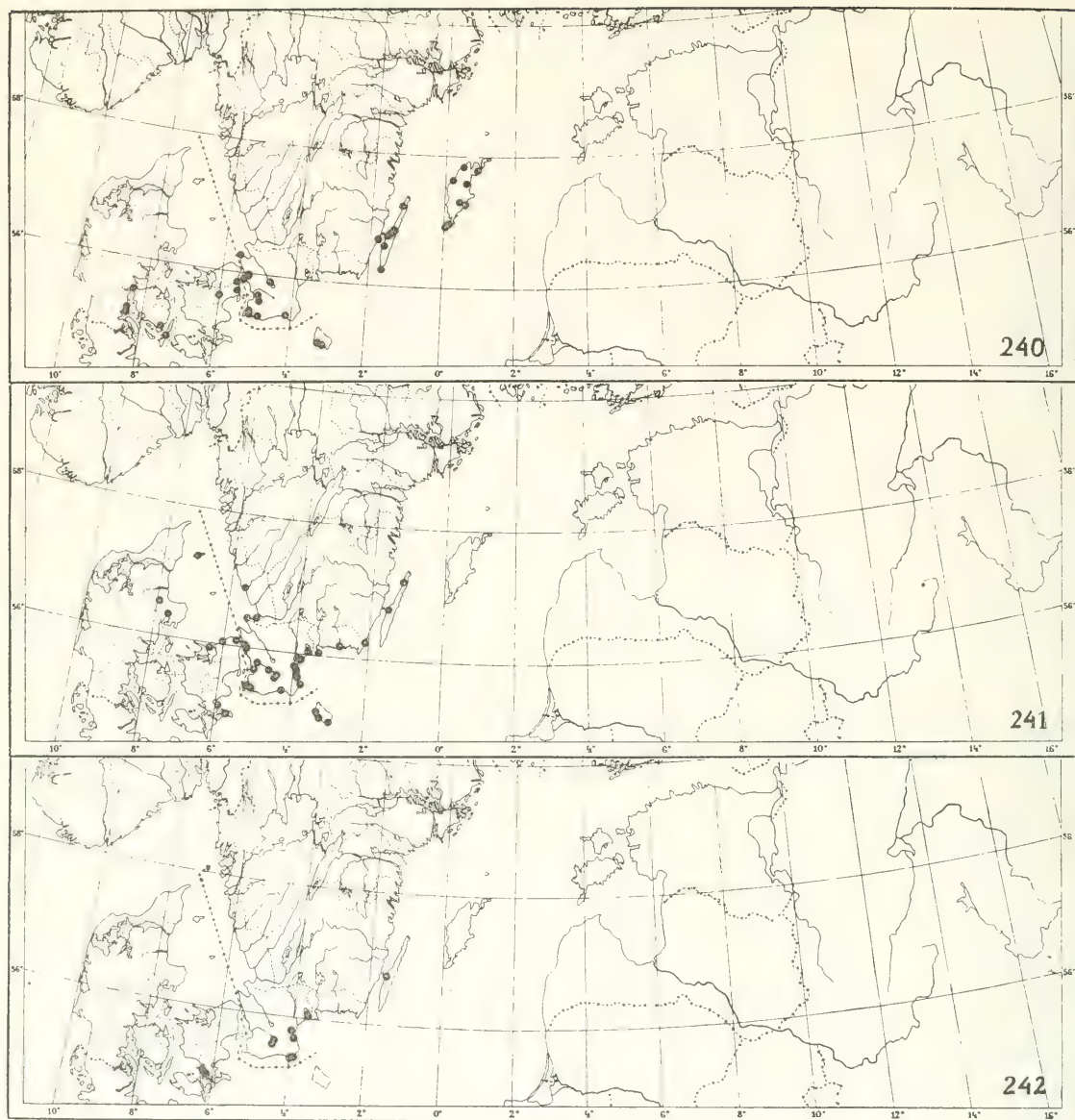
235. *Harpalus (Pseudophonus) griseus* Panz.236. *Harpalus hirtipes* Panz.





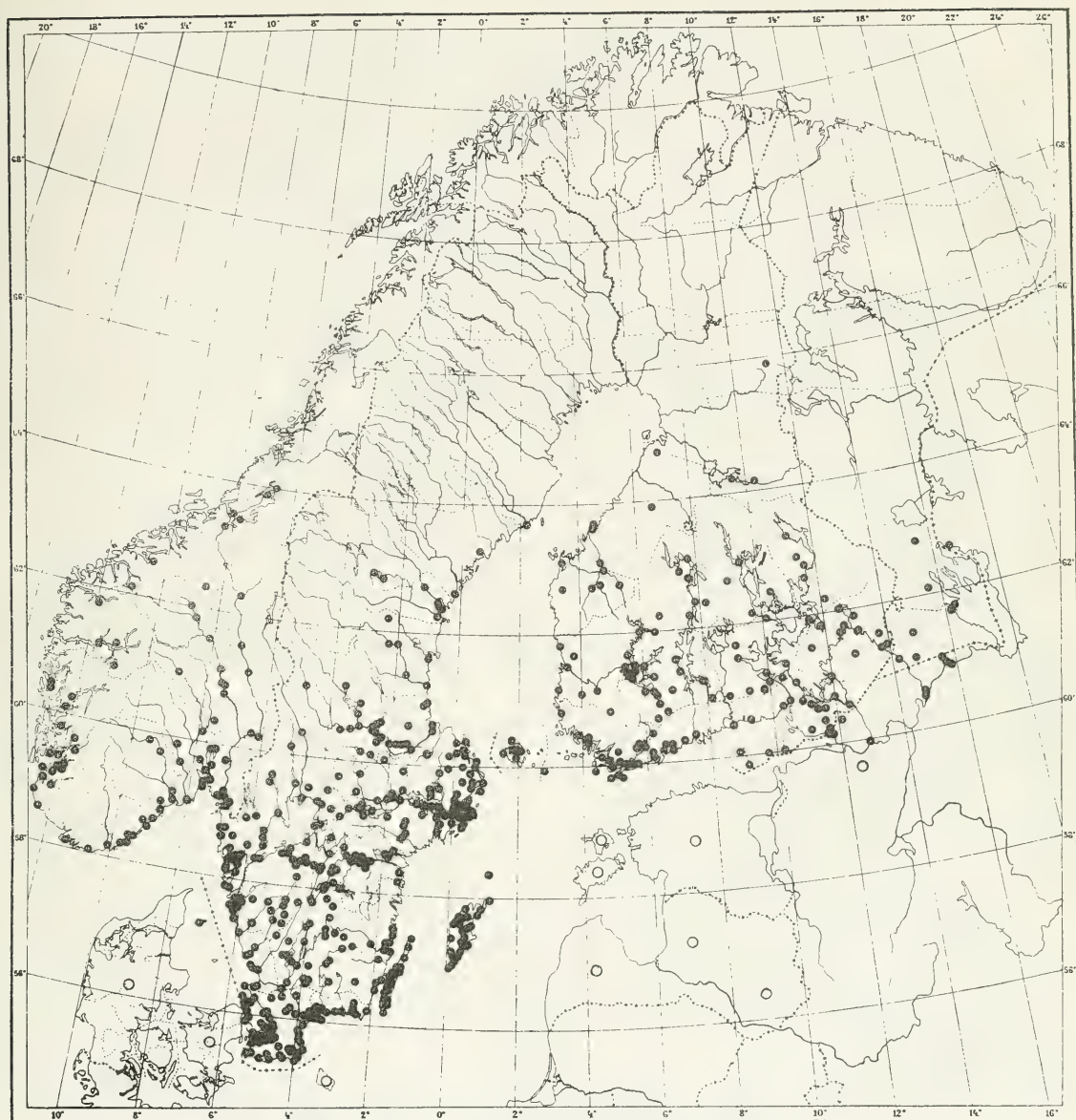
199

238. *Harpalus luteicornis* Dft. s. str. Provisional map.239. *Harpalus melancholicus* Dej.



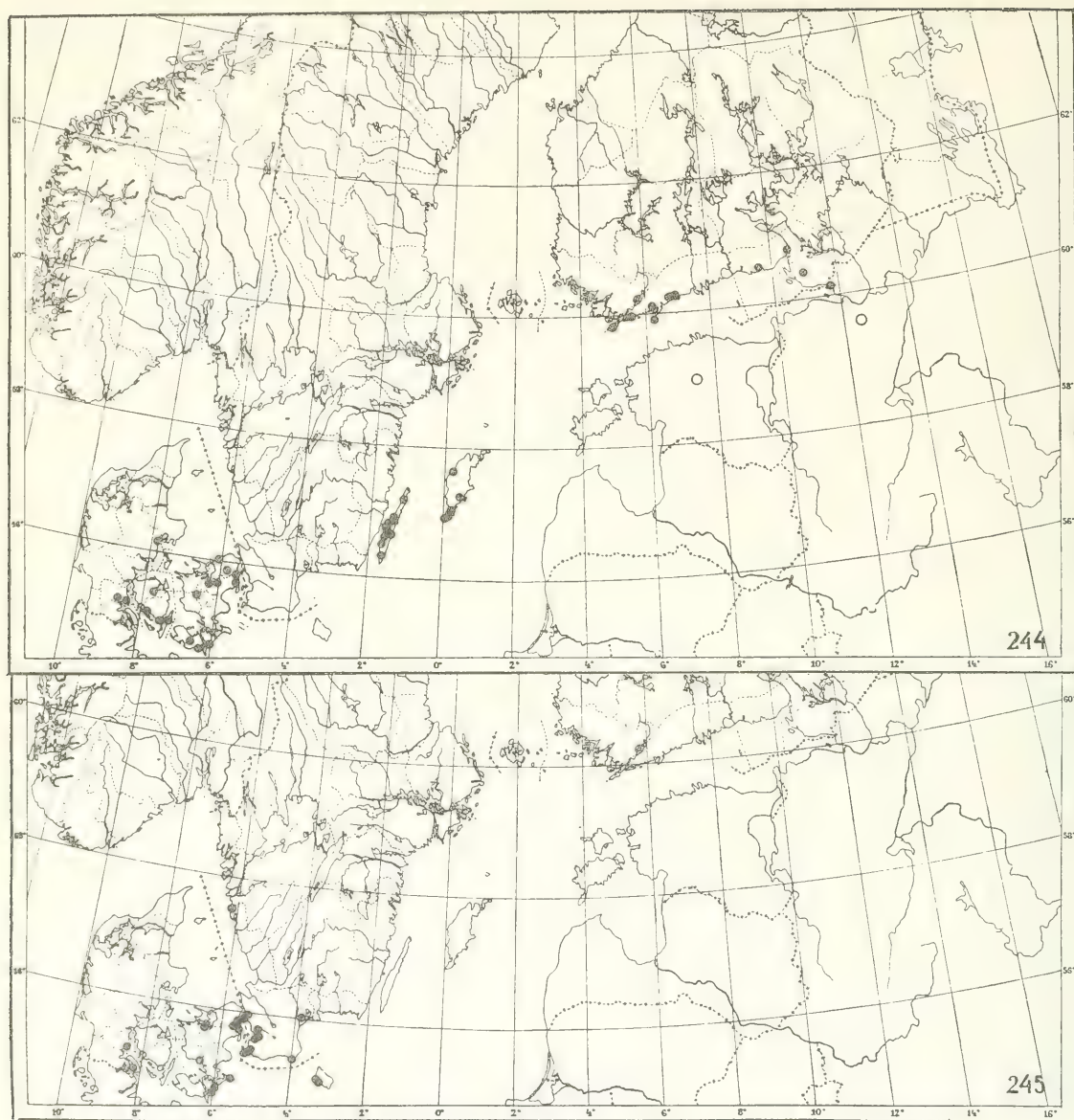
200

240. *Harpalus (Ophonus) melleti* Heer.241. *Harpalus neglectus* Dej.242. *Harpalus picipennis* Dft.



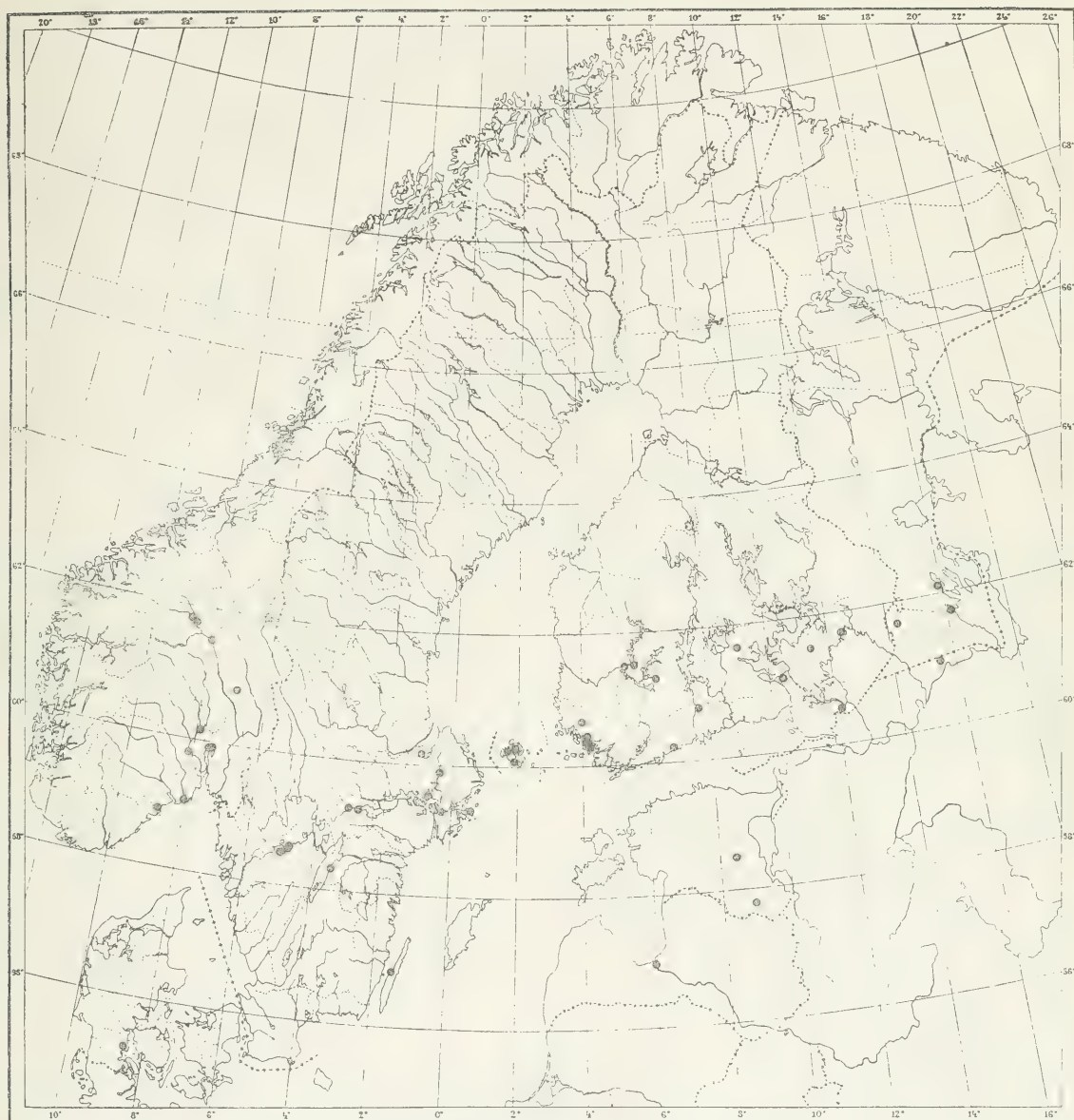
201

243. *Harpalus (Pseudophonus) pubescens* Müll.

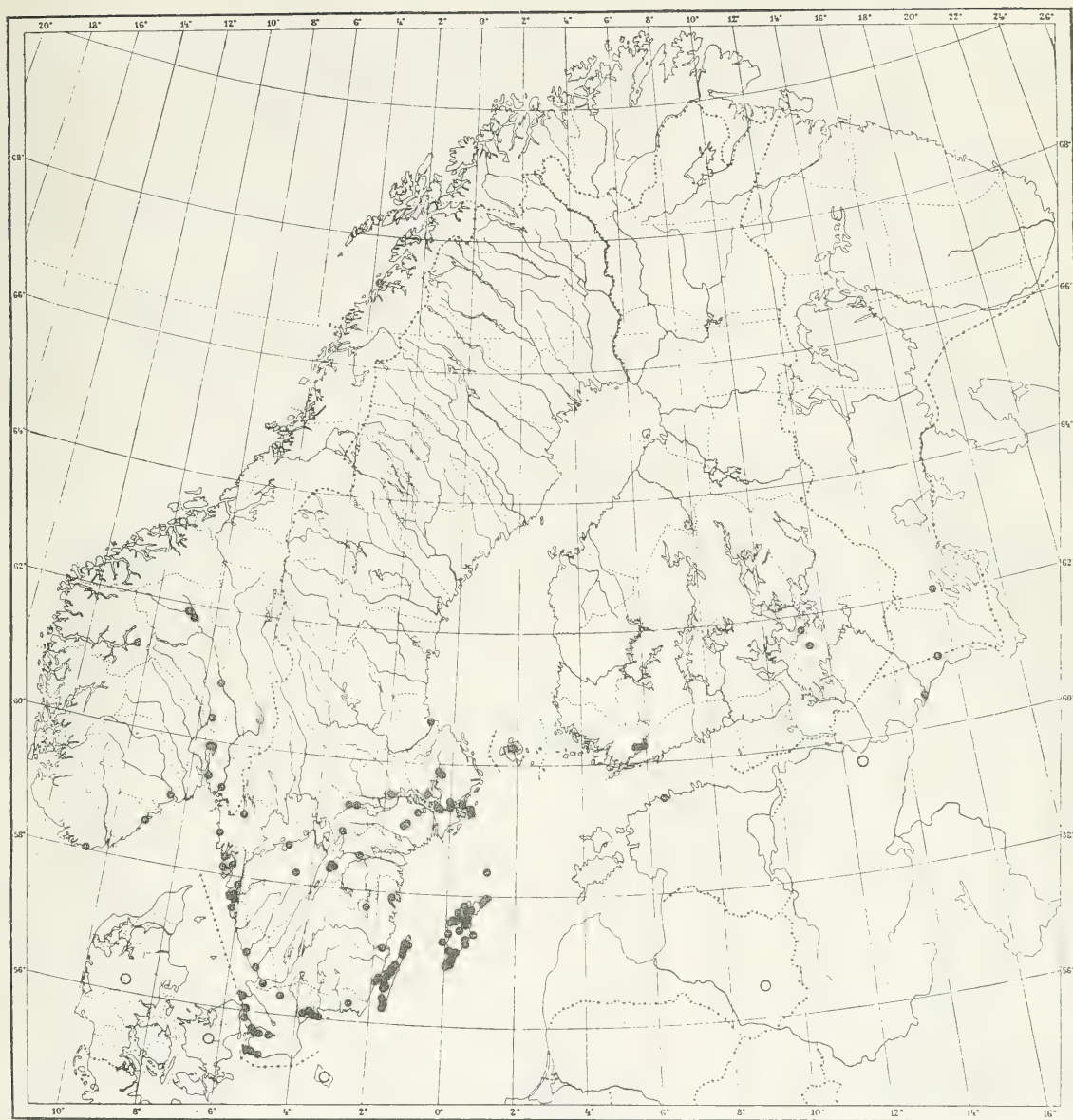


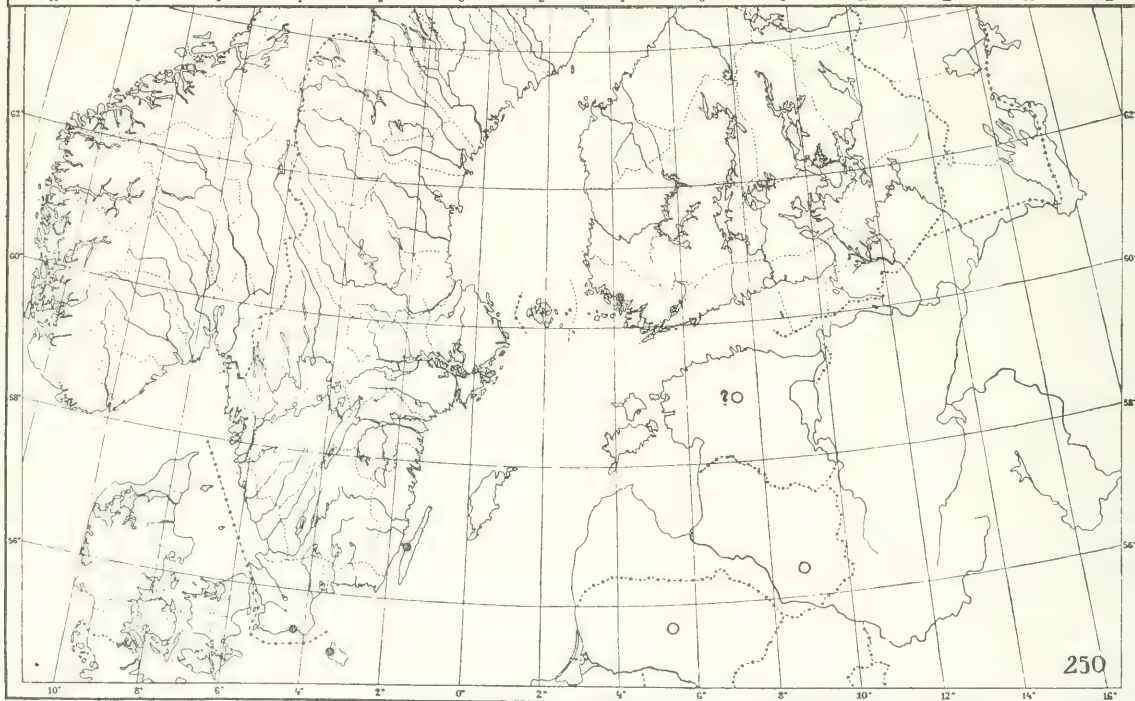
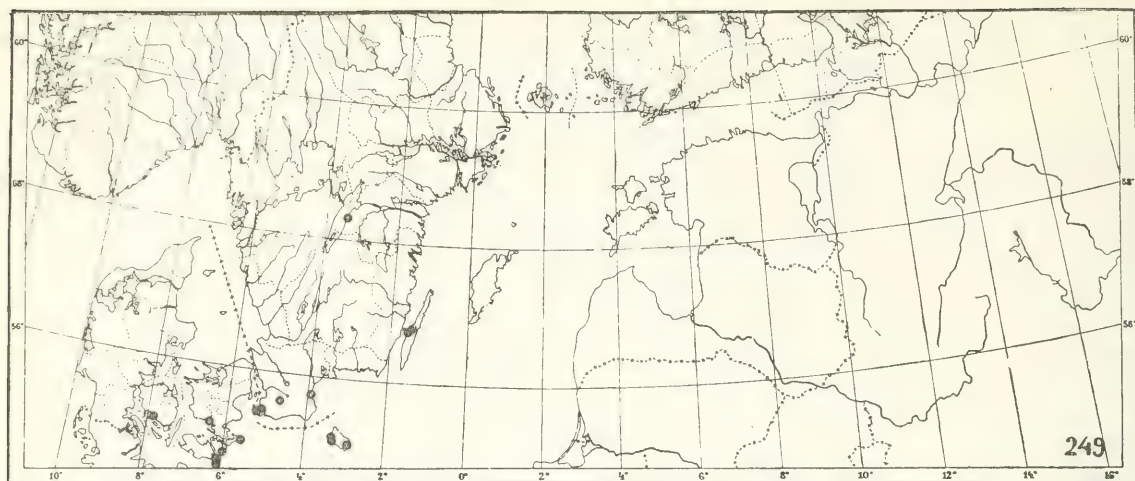
202

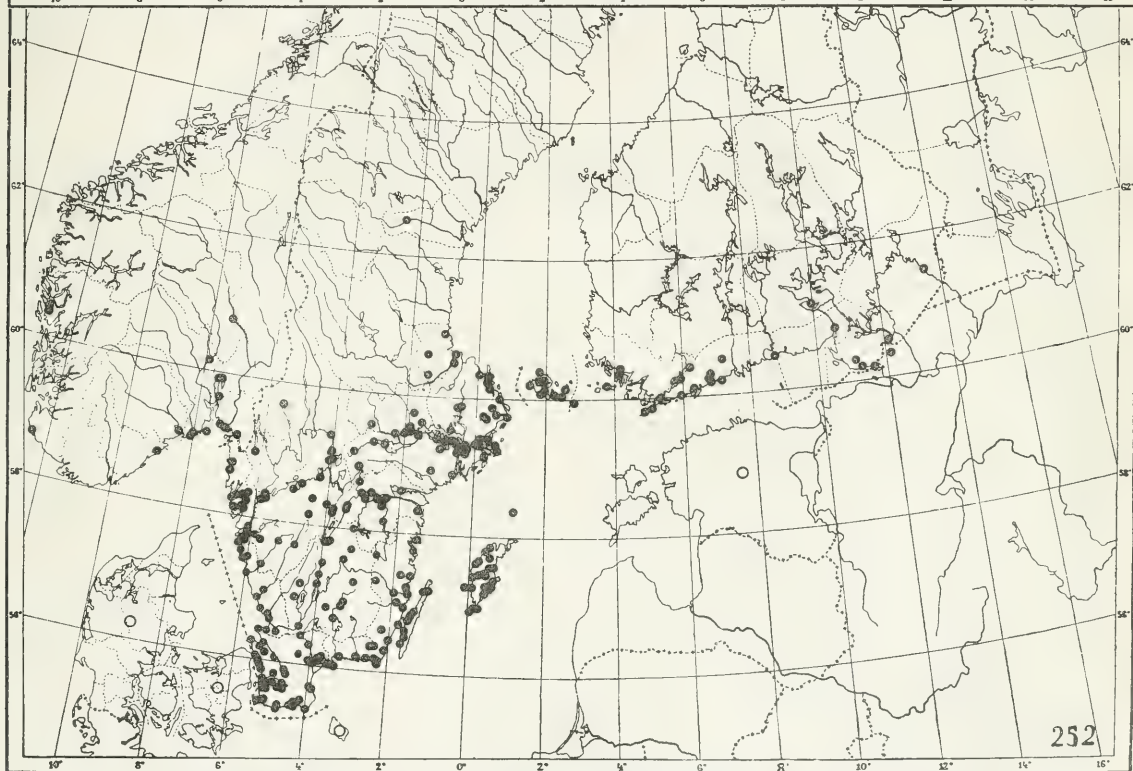
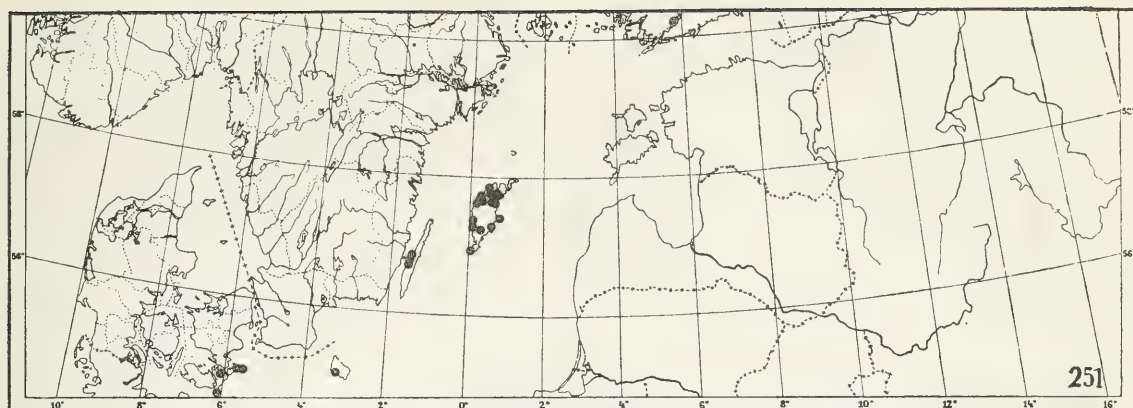
244. *Harpalus (Ophonus) punctatulus* Dft.245. *Harpalus (Ophonus) puncticeps* Steph.





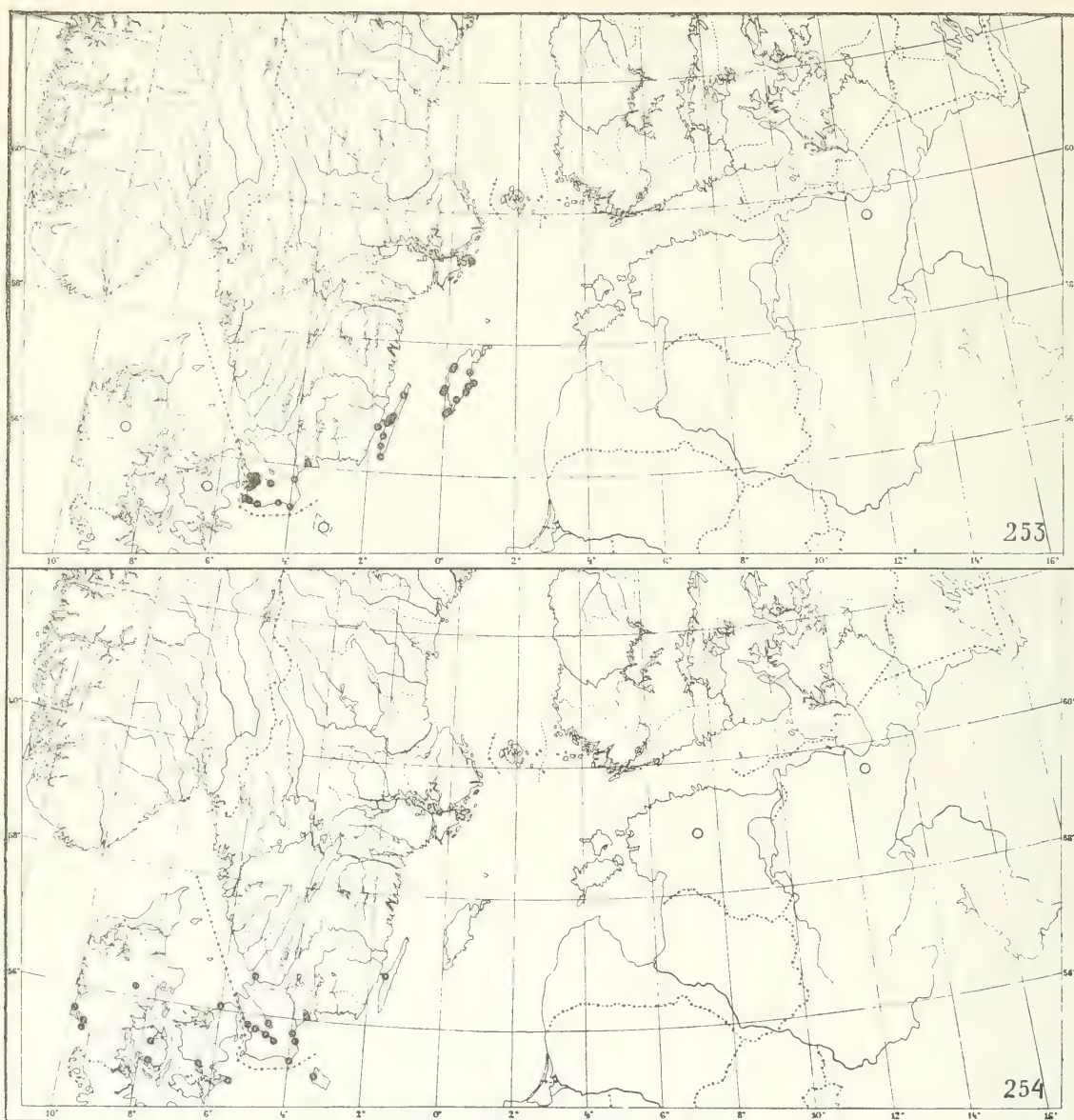






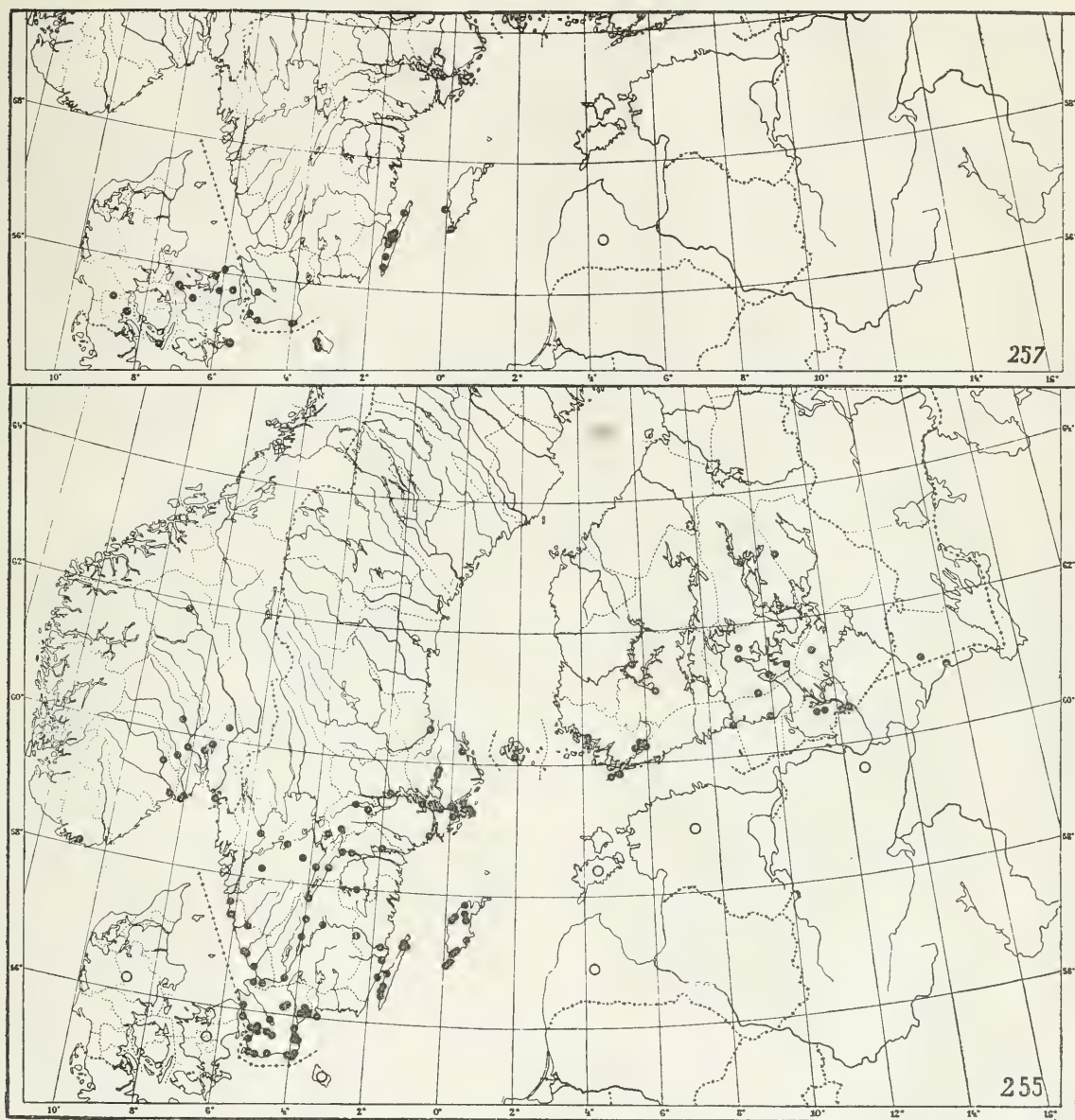
207

251. *Harpalus (Ophonus) rupicola* Sturm.252. *Harpalus (Ophonus) seladon* Schaub.



208

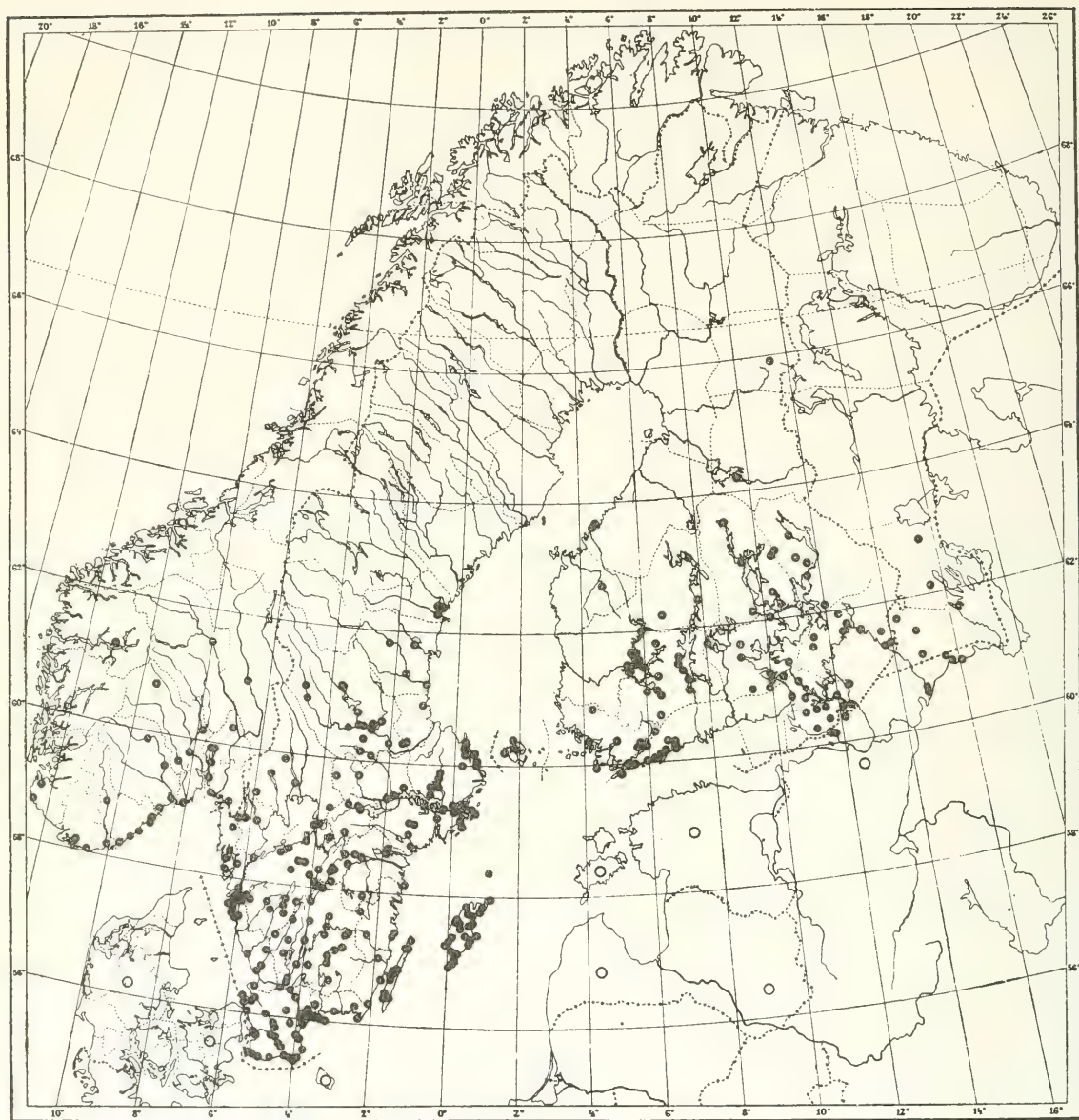
253. *Harpalus serripes* Quens.254. *Harpalus servus* Dft.



209

255. *Harpalus smaragdinus* Dft.
 (256. *Harpalus tardus*, see p. 204.)

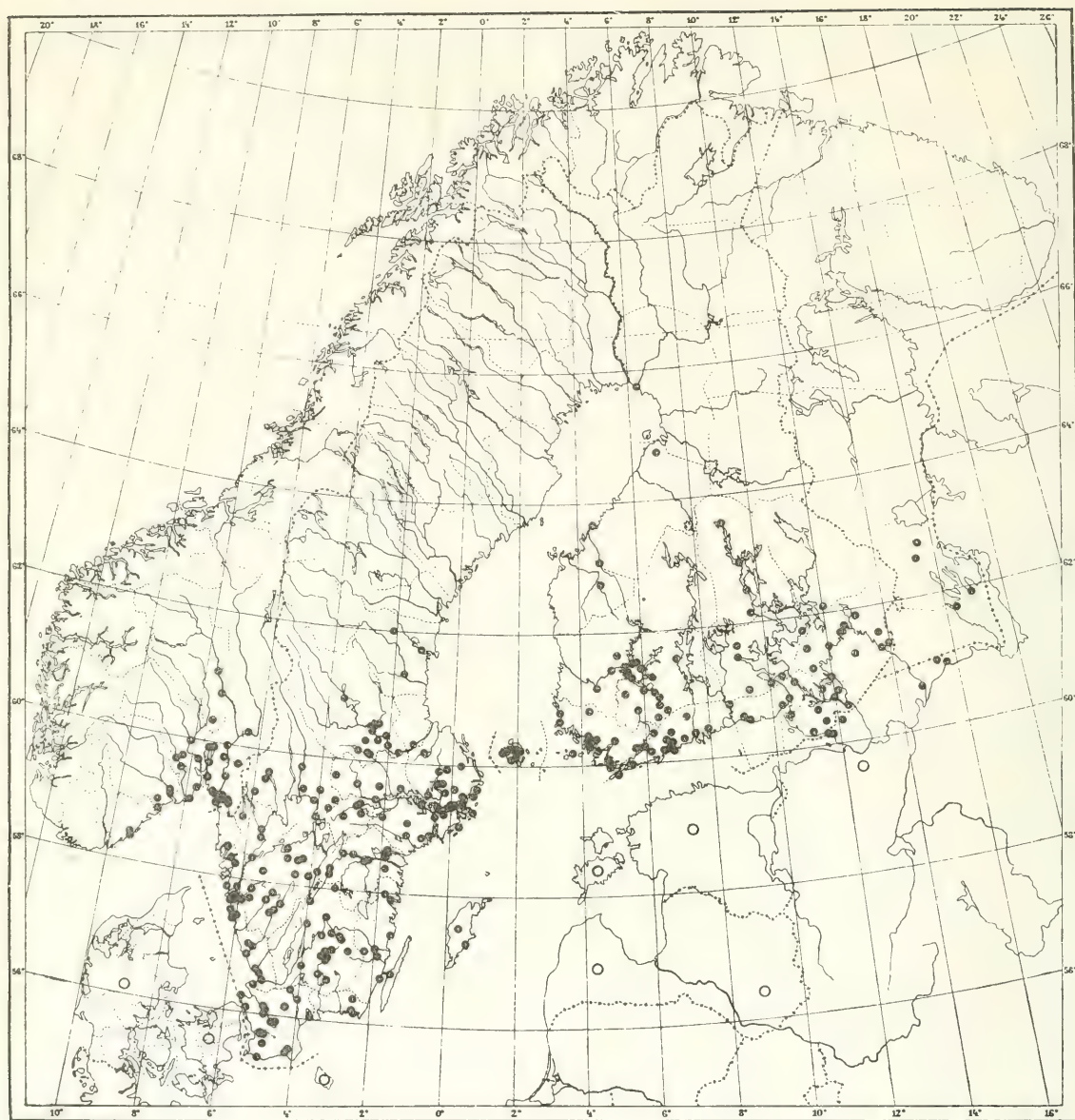
257. *Harpalus vernalis* Dft.

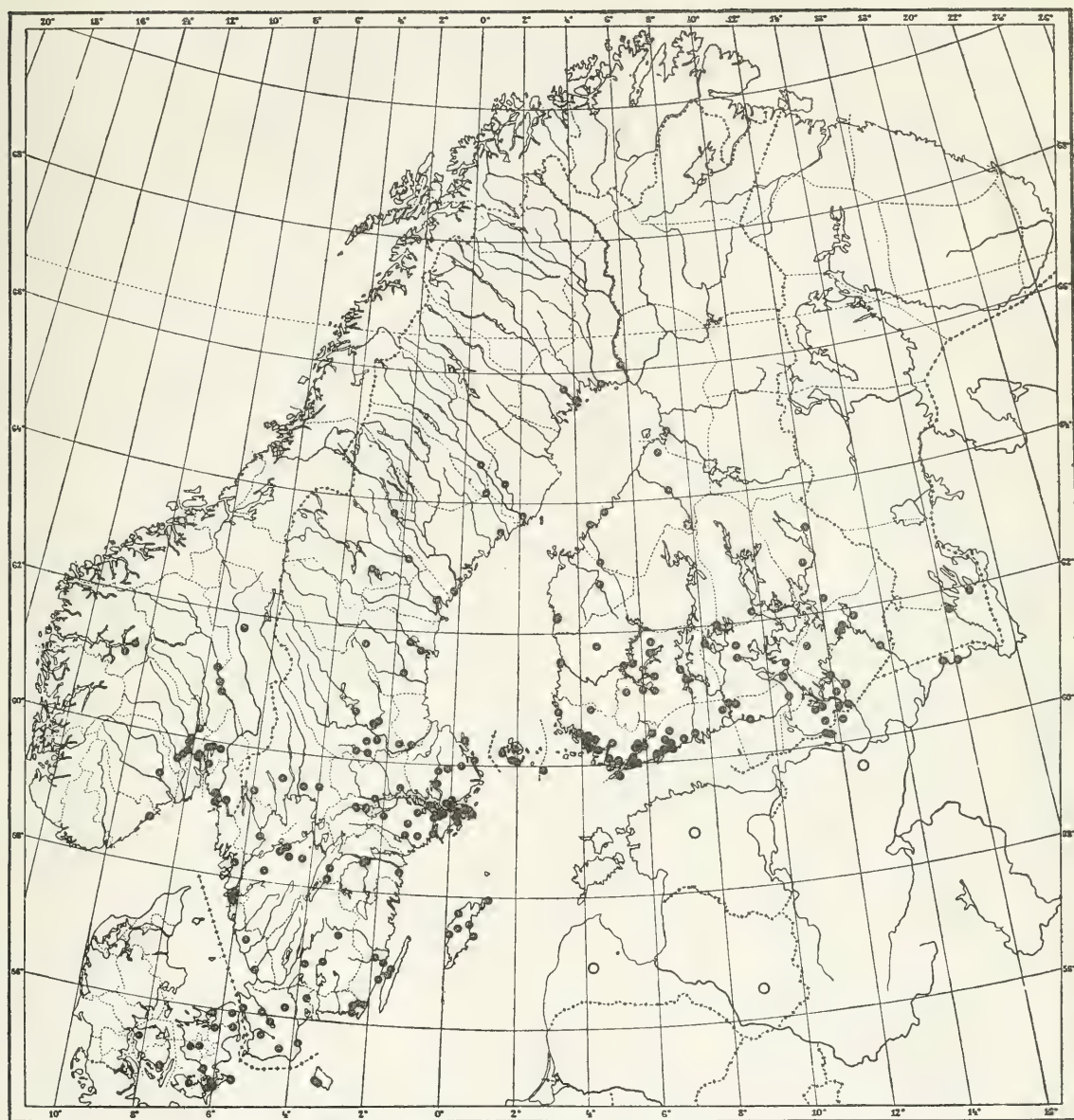


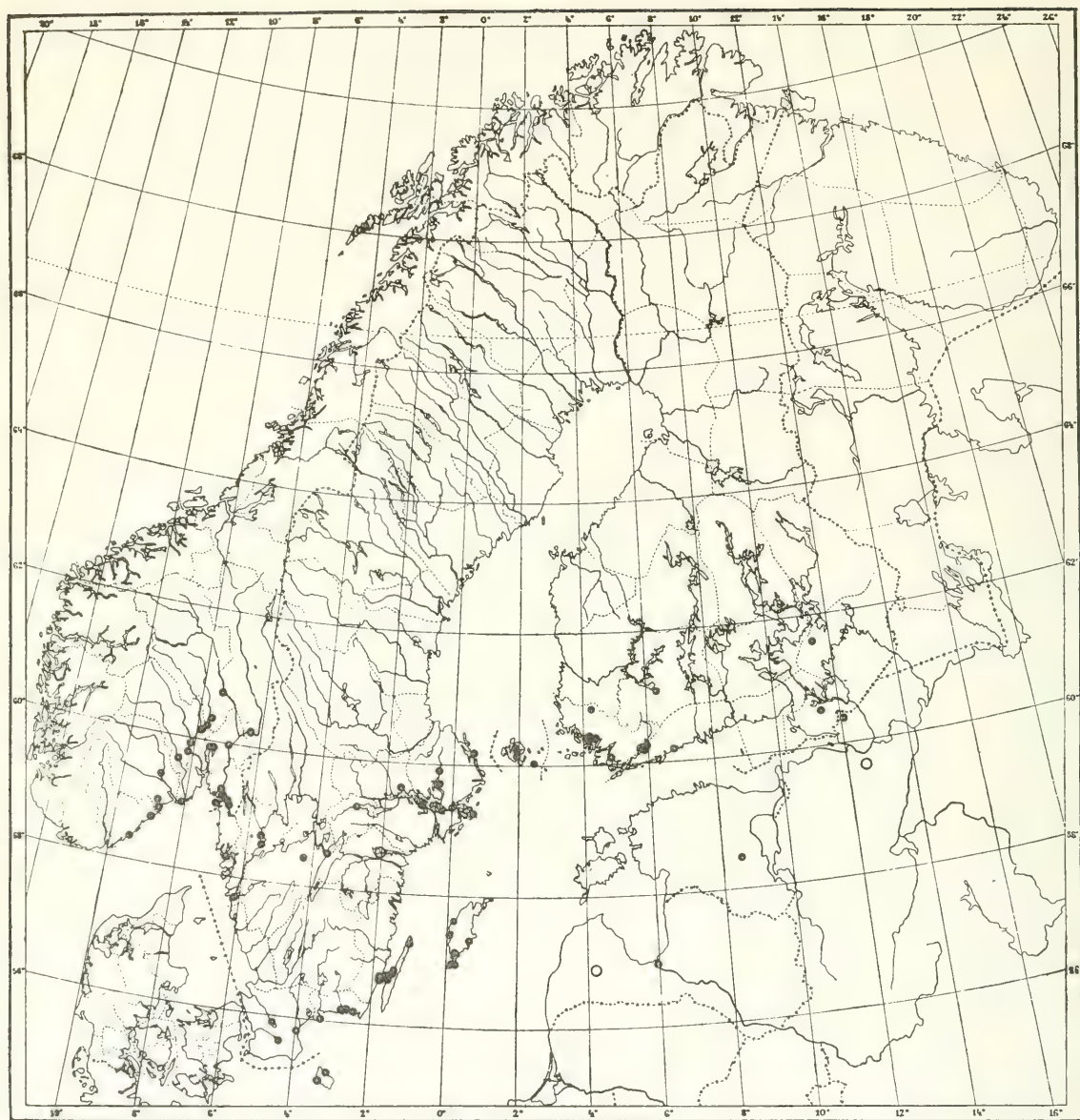
210

256. *Harpalus tardus* Panz.(257. *Harpalus vernalis*, see p. 203.)







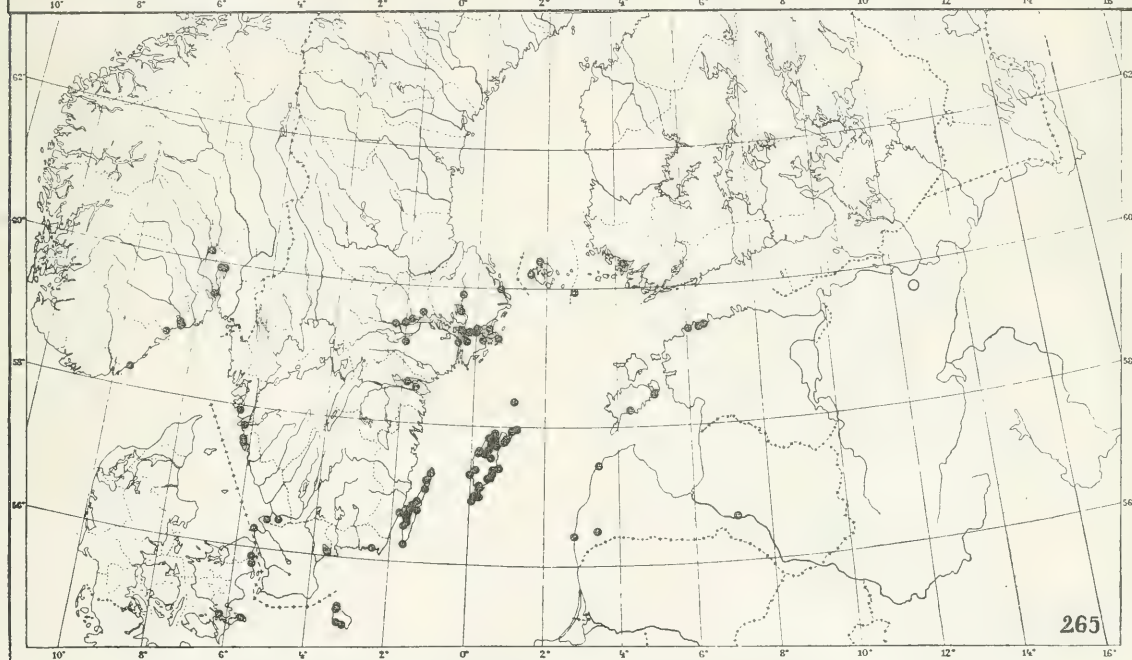
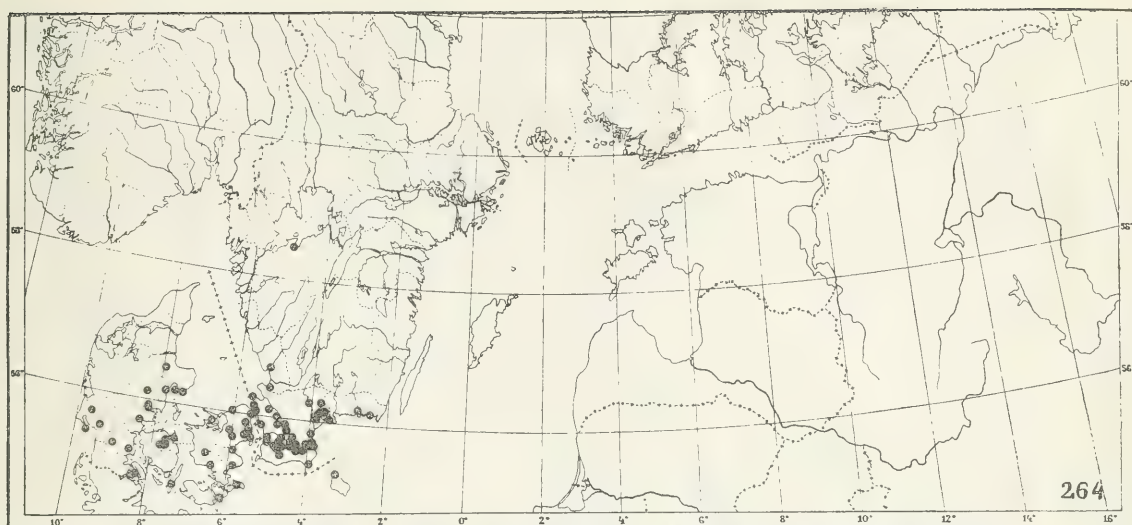




215

262. *Leistus ferrugineus* L.

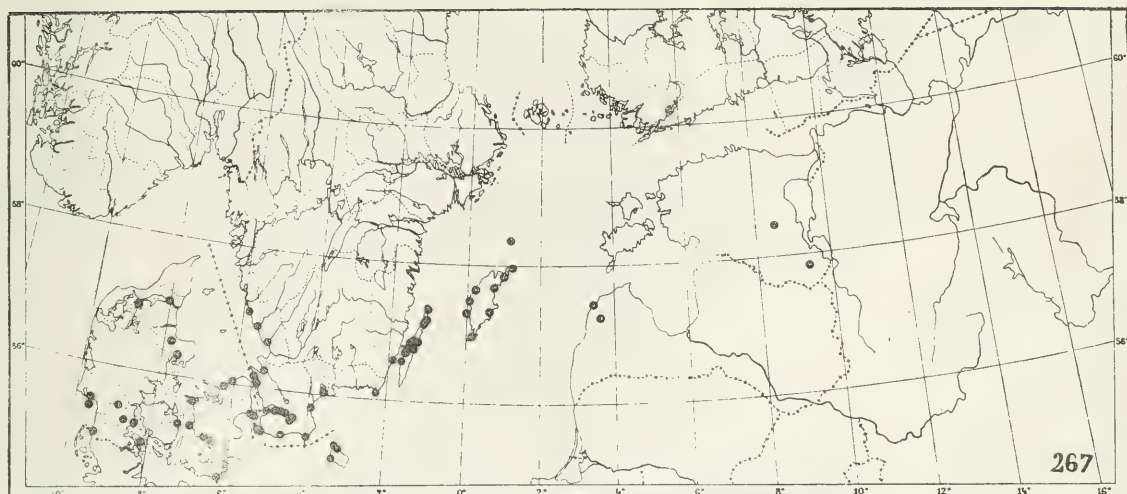




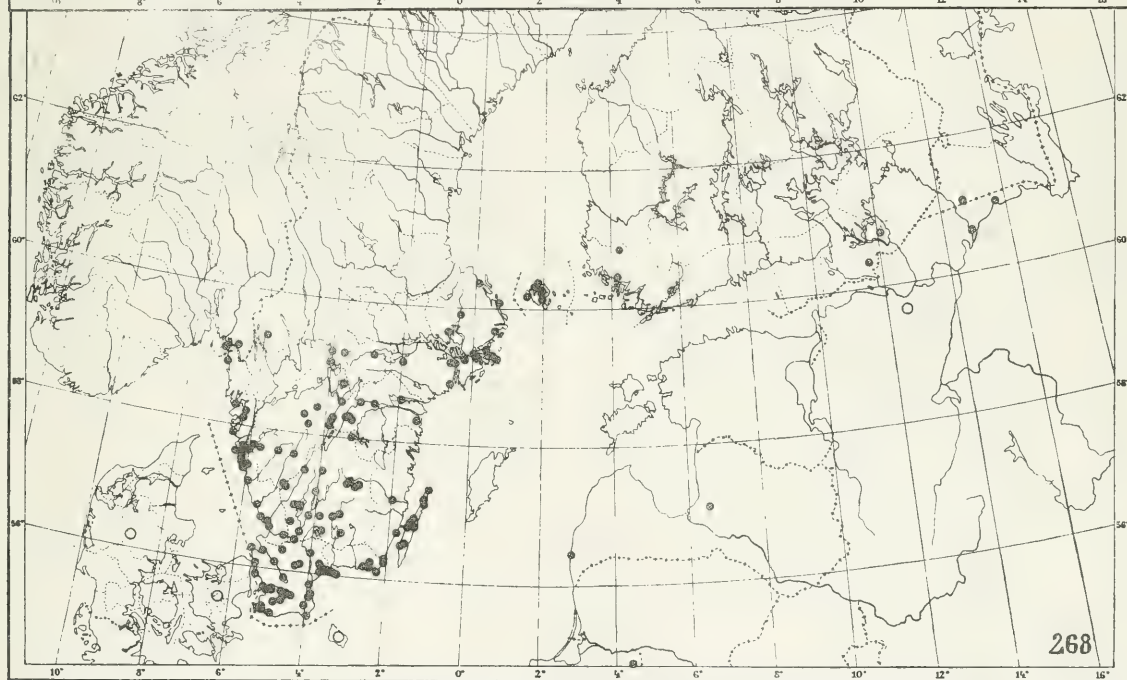
217

264. *Leistus rufomarginatus* Dft.265. *Licinus depressus* Payk.





267

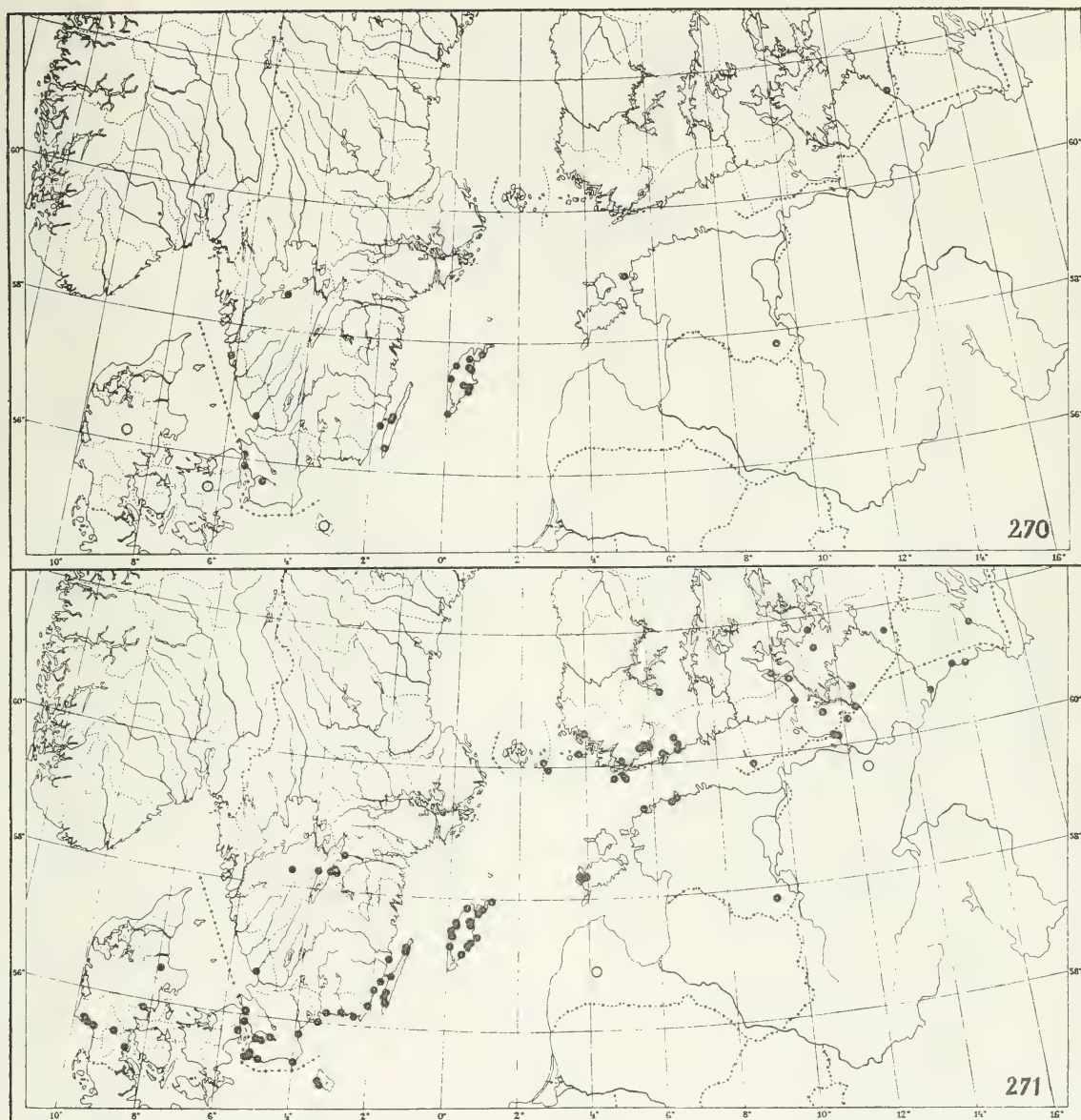


268

219

267. *Masoreus wetterhalli* Gyll.268. *Metabletus foveatus* G.-F.

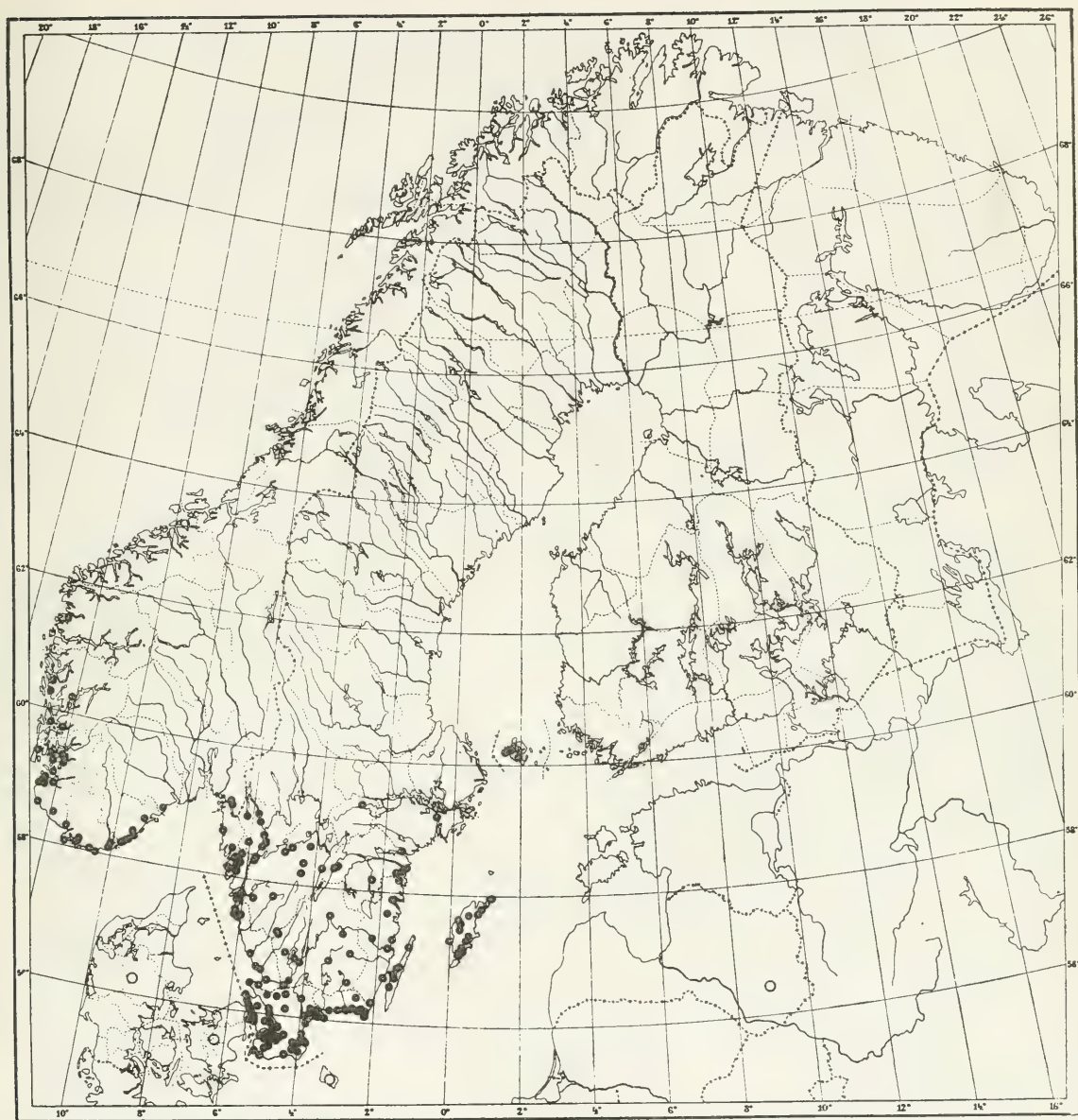




221

270. *Microlestes maurus* Sturm.271. *Microlestes minutulus* Gze.

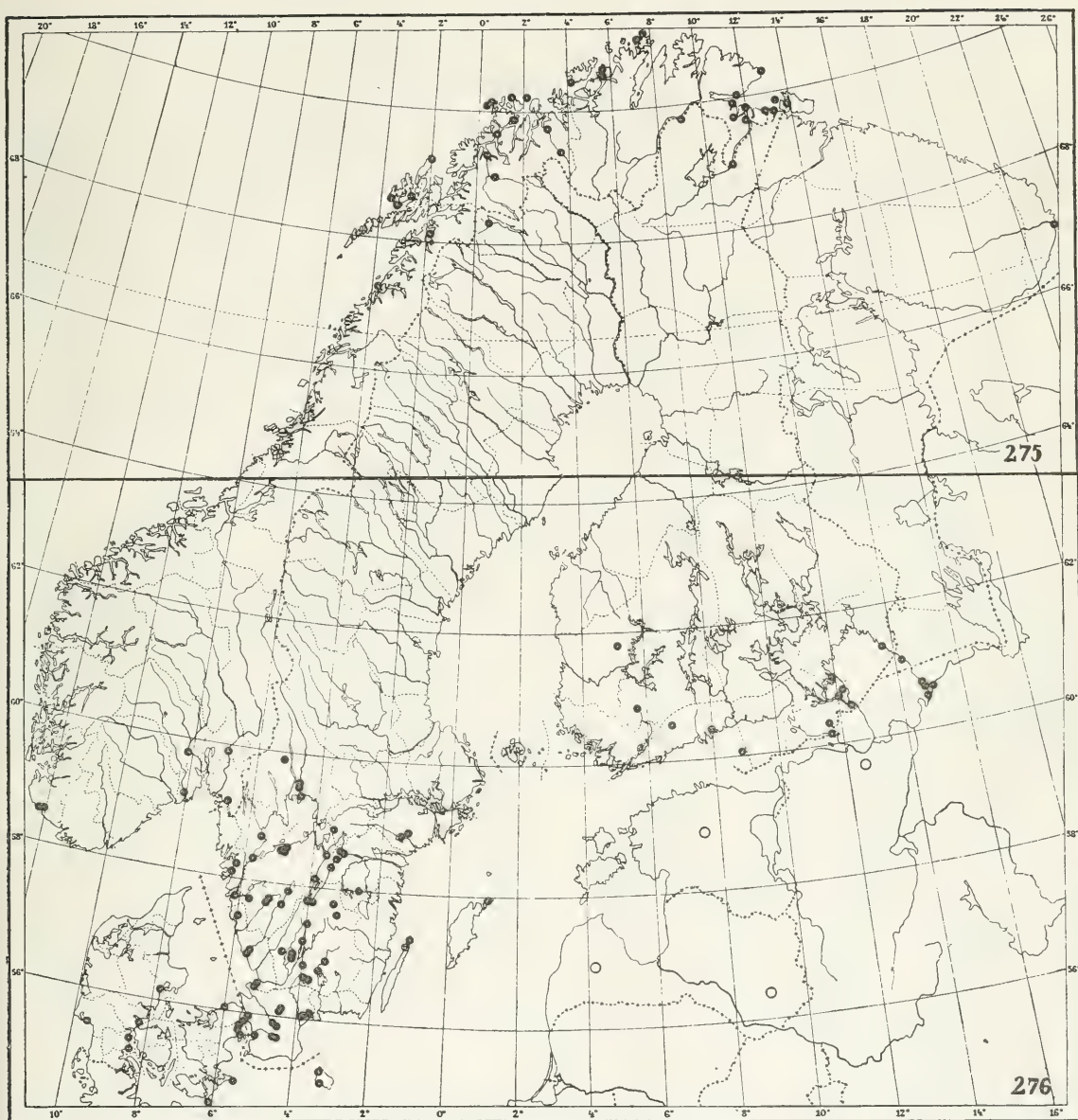




223

273. *Nebria brevicollis* Fbr.





225

275. *Nebria gyllenhali balbii* Bon.276. *Nebria livida* L.





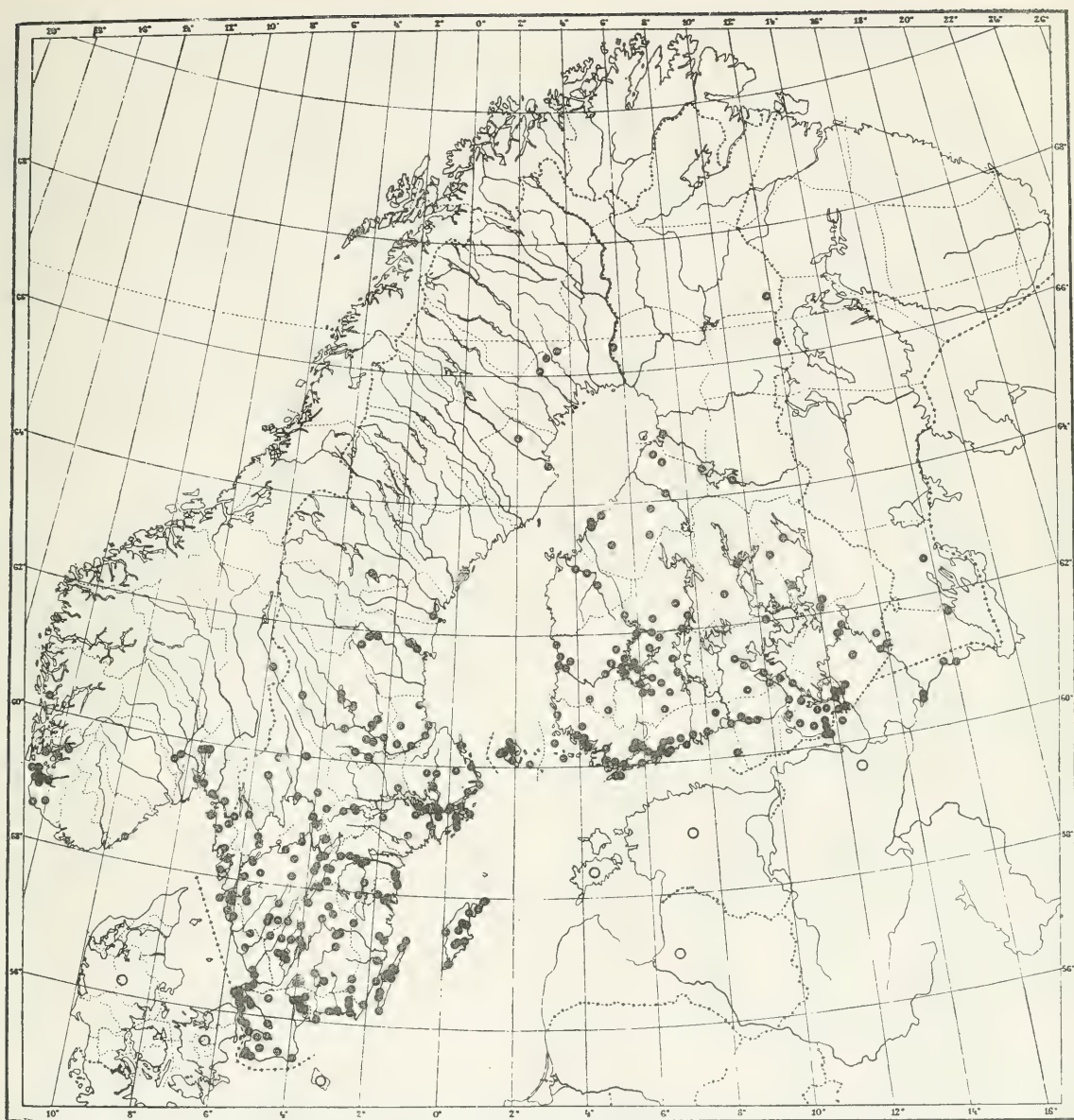






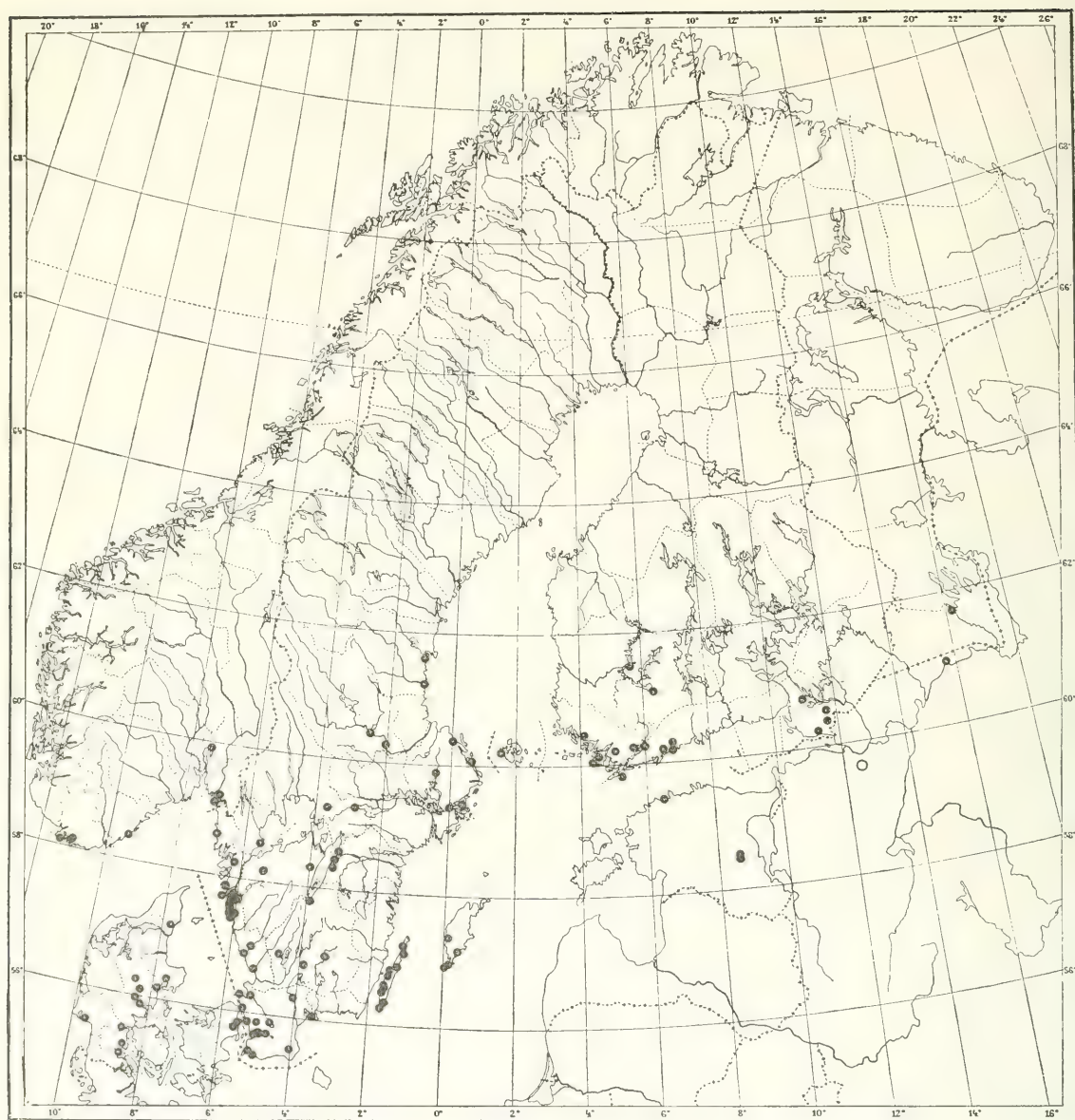
230

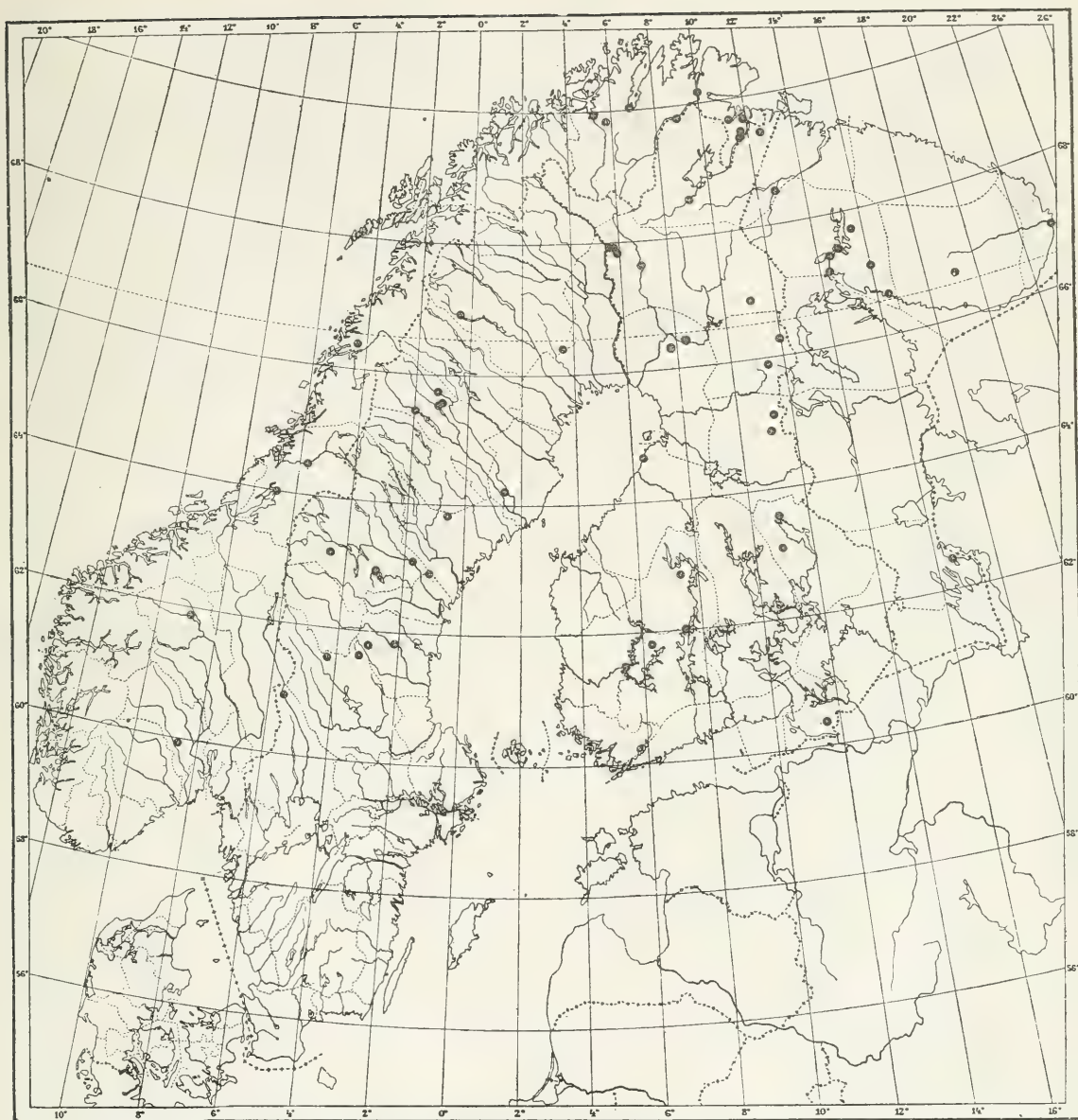
281. *Notiophilus germinyi* Fauv.

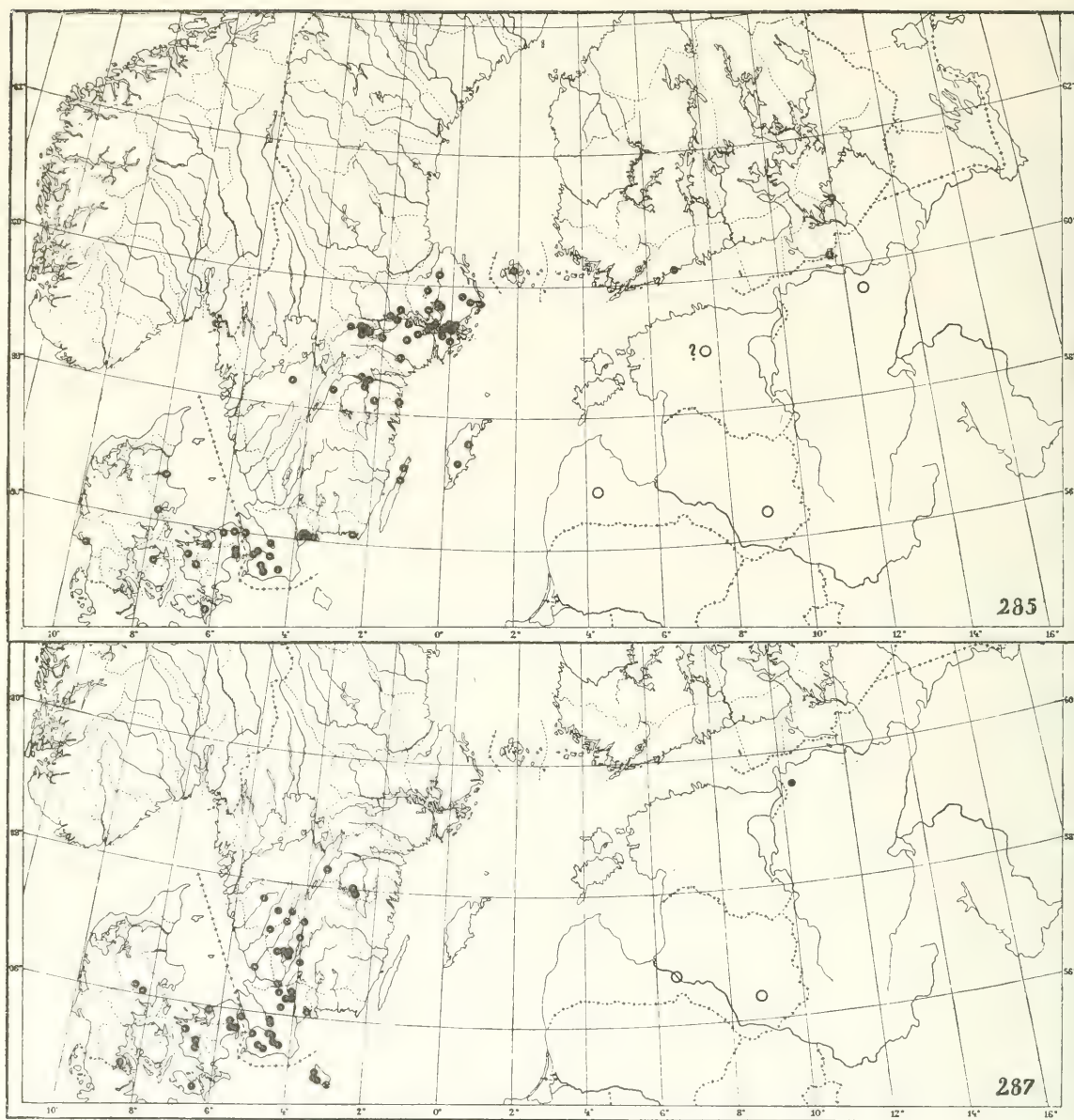


231

282. *Notiophilus palustris* Dft.

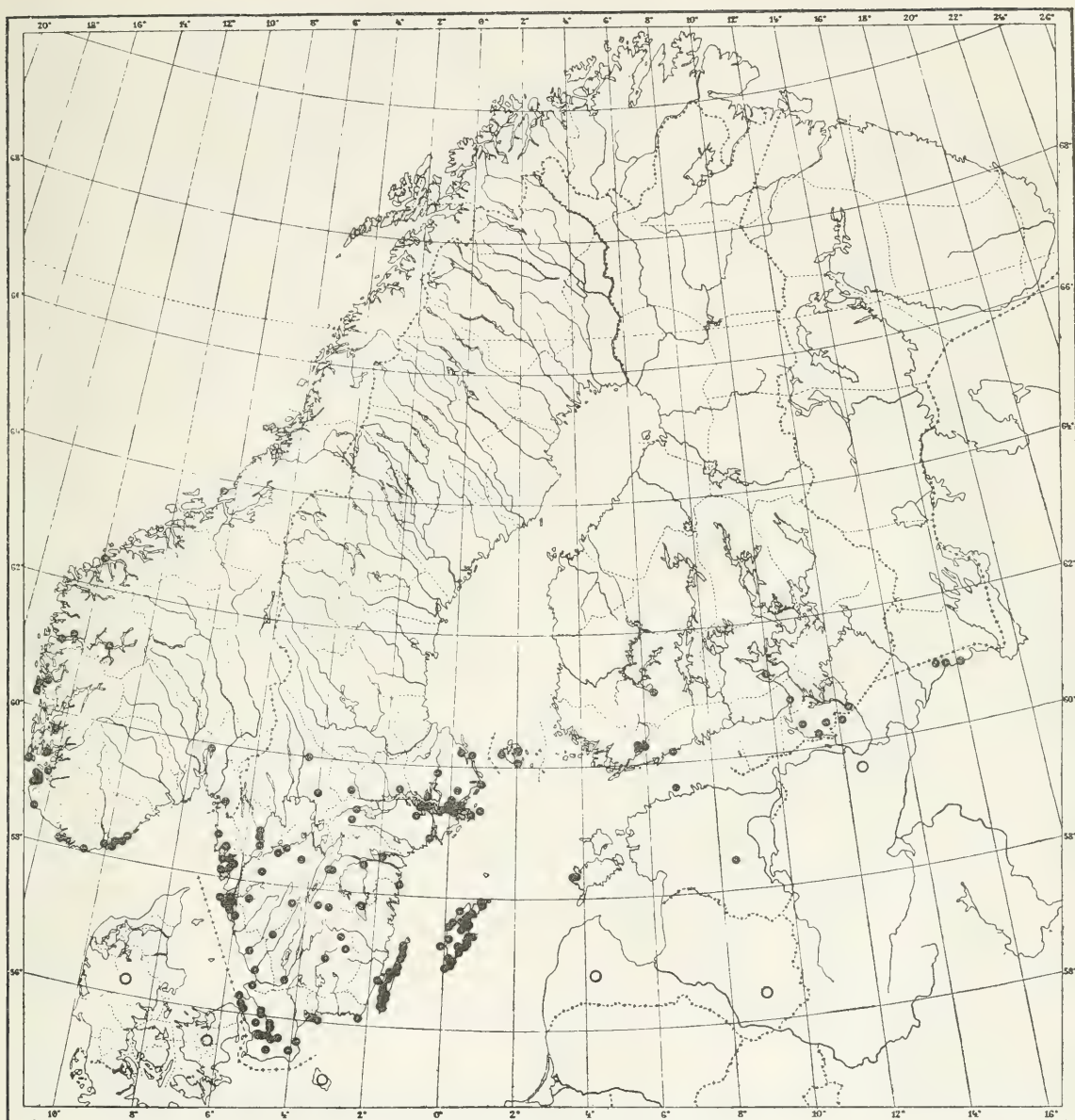






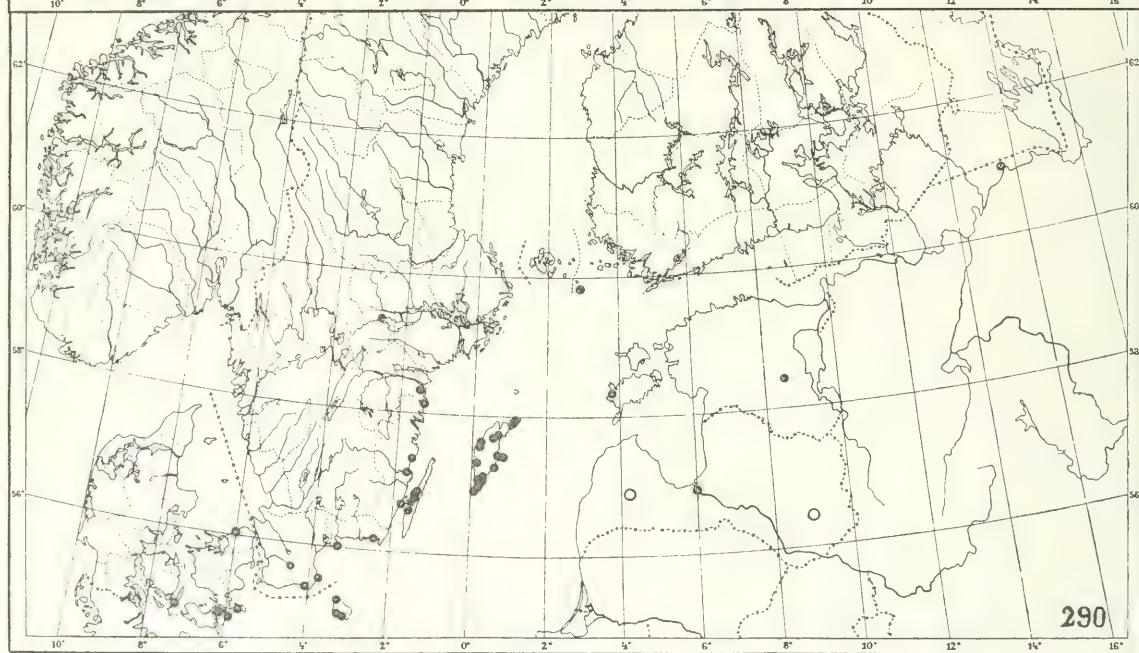
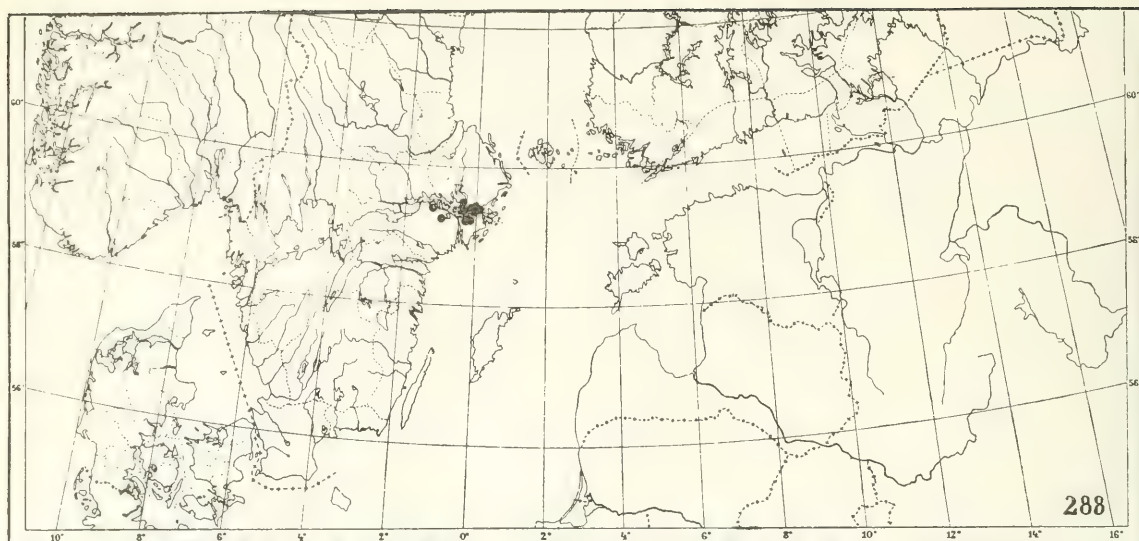
234

285. *Odacantha melanura* L.(286. *Olisthopus rotundatus*, see p. 229.)287. *Omophron limbatum* Fbr.



235

286. *Olishopus rotundatus* Payk.(287. *Omophron limbatum*, see p. 228.)

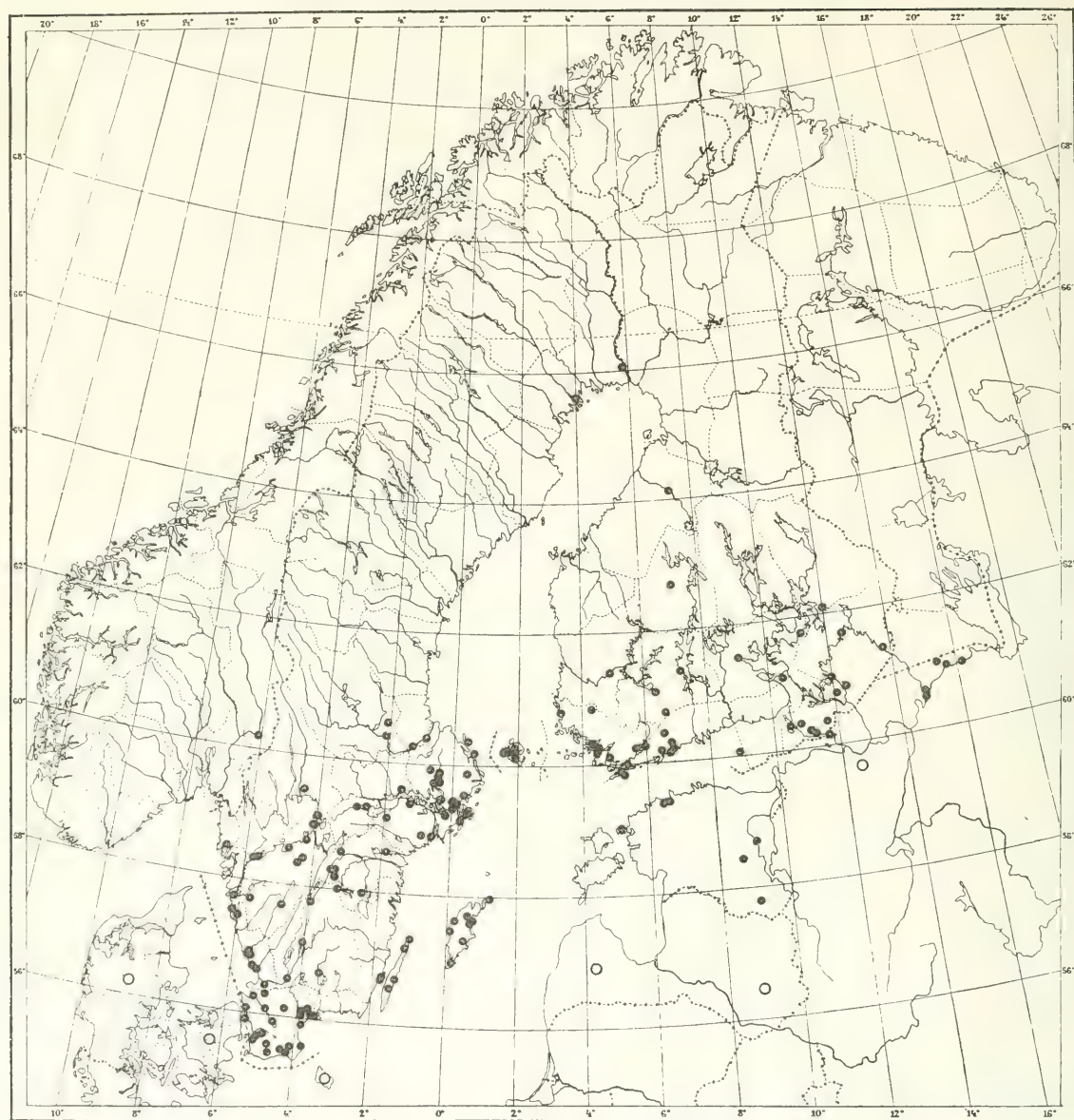


288. *Oodes gracilis* Villa.
 (289. *Oodes helopioides*, see p. 231.)
 290. *Panagaeus bipustulatus* Fbr.



237

289. *Oodes helopioides* Fbr.(290. *Panagaeus bipustulatus*, see p. 230.)











242

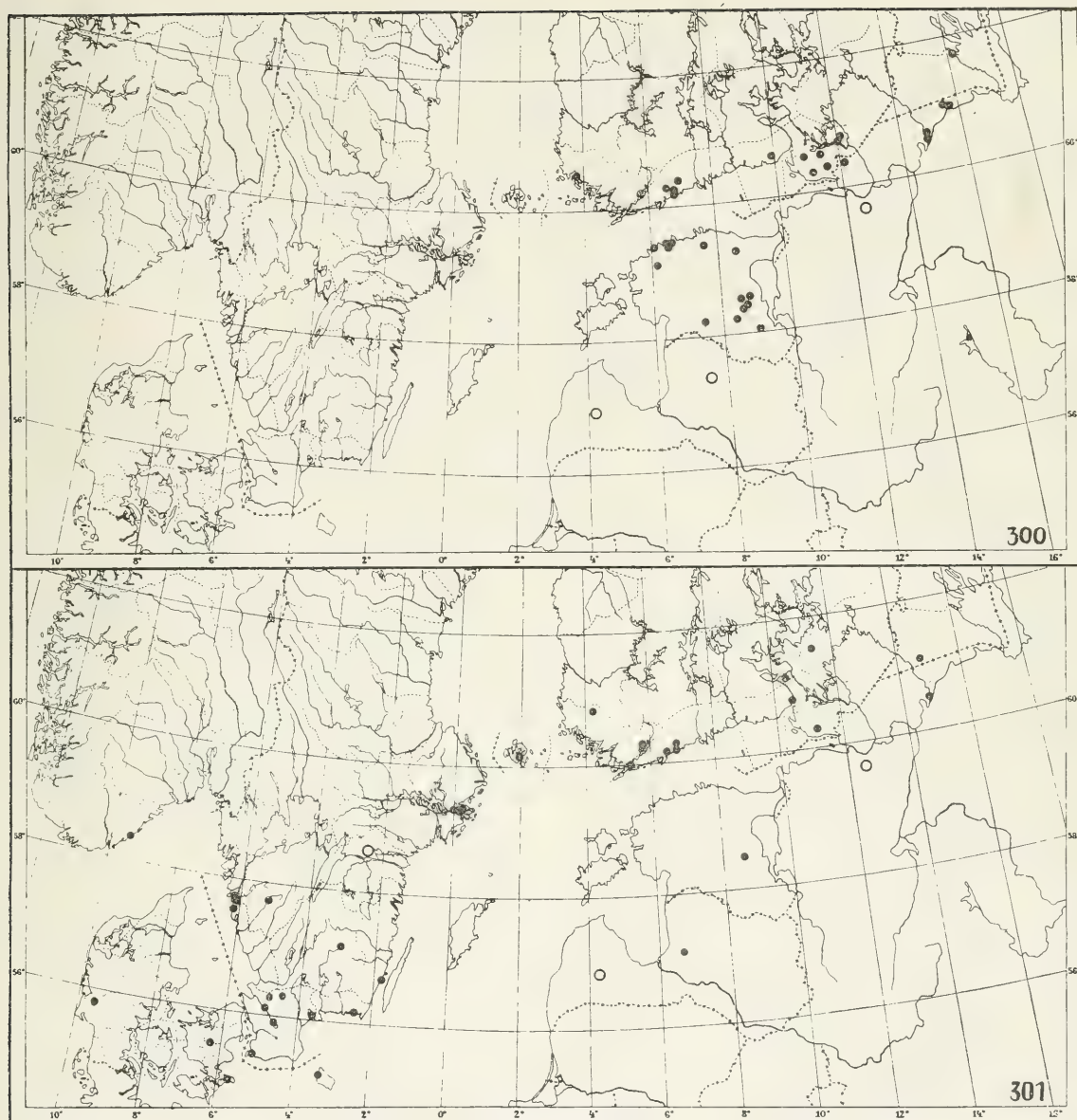
295. *Patrobus septentrionis australis* J. Sahlb. s. l.

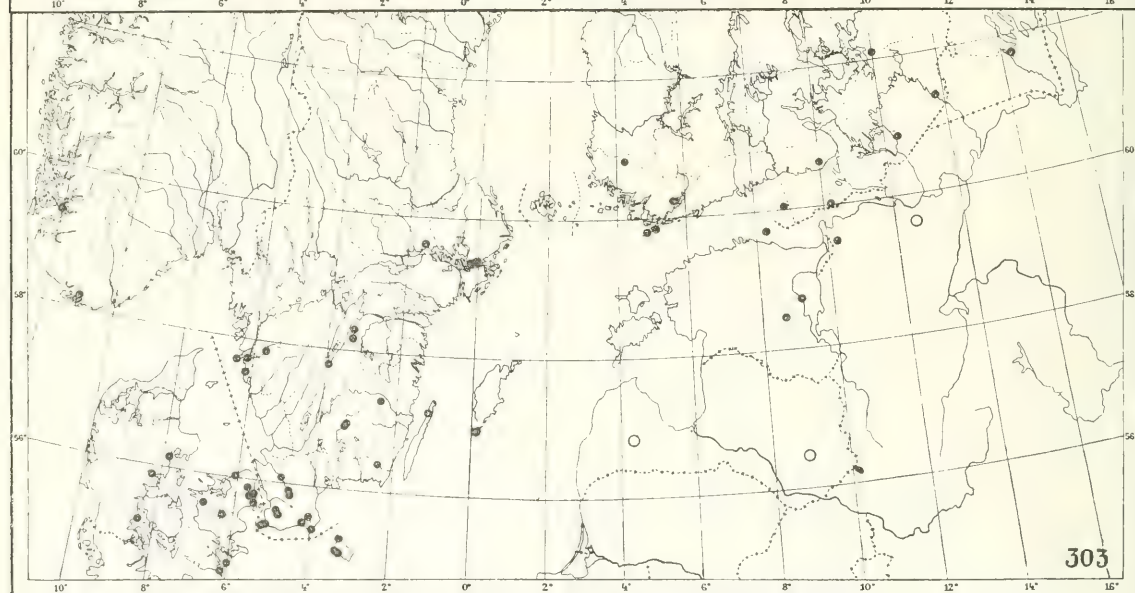
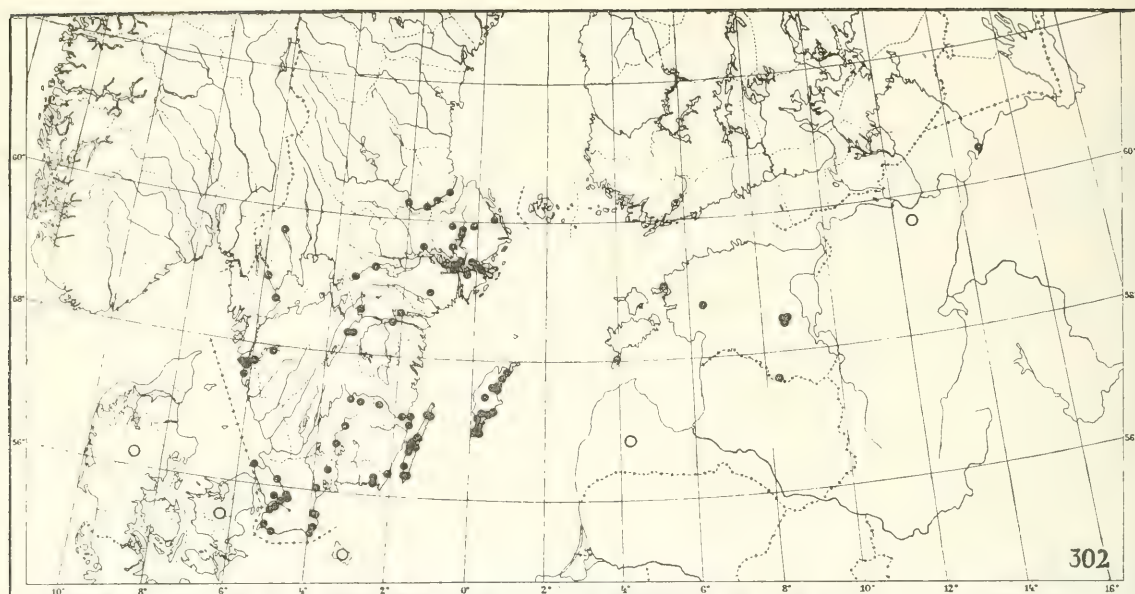




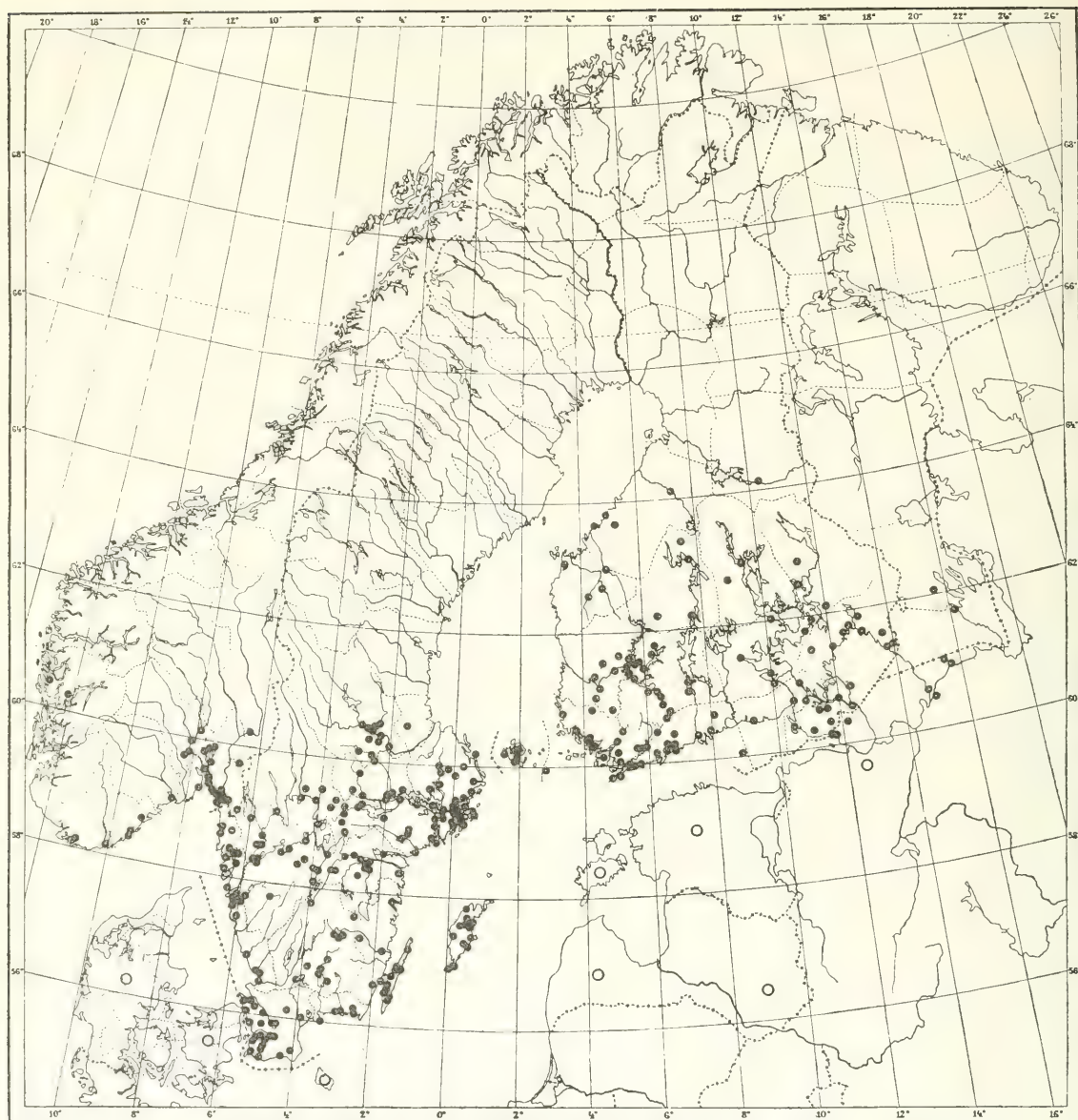












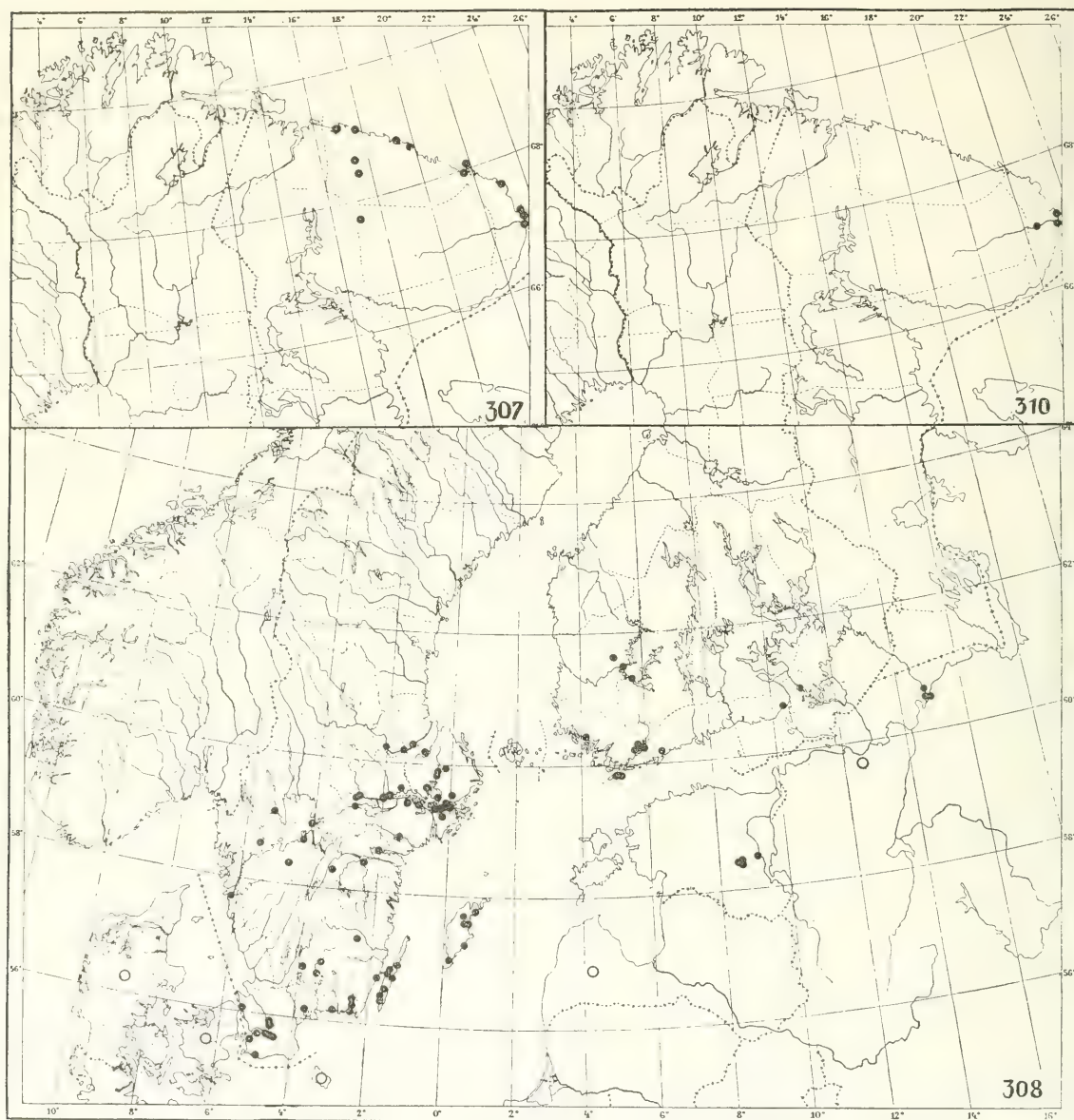
250

305. *Pterostichus (Pocilus) cupreus* L.



251

306. *Pterostichus diligens* Sturm.



252

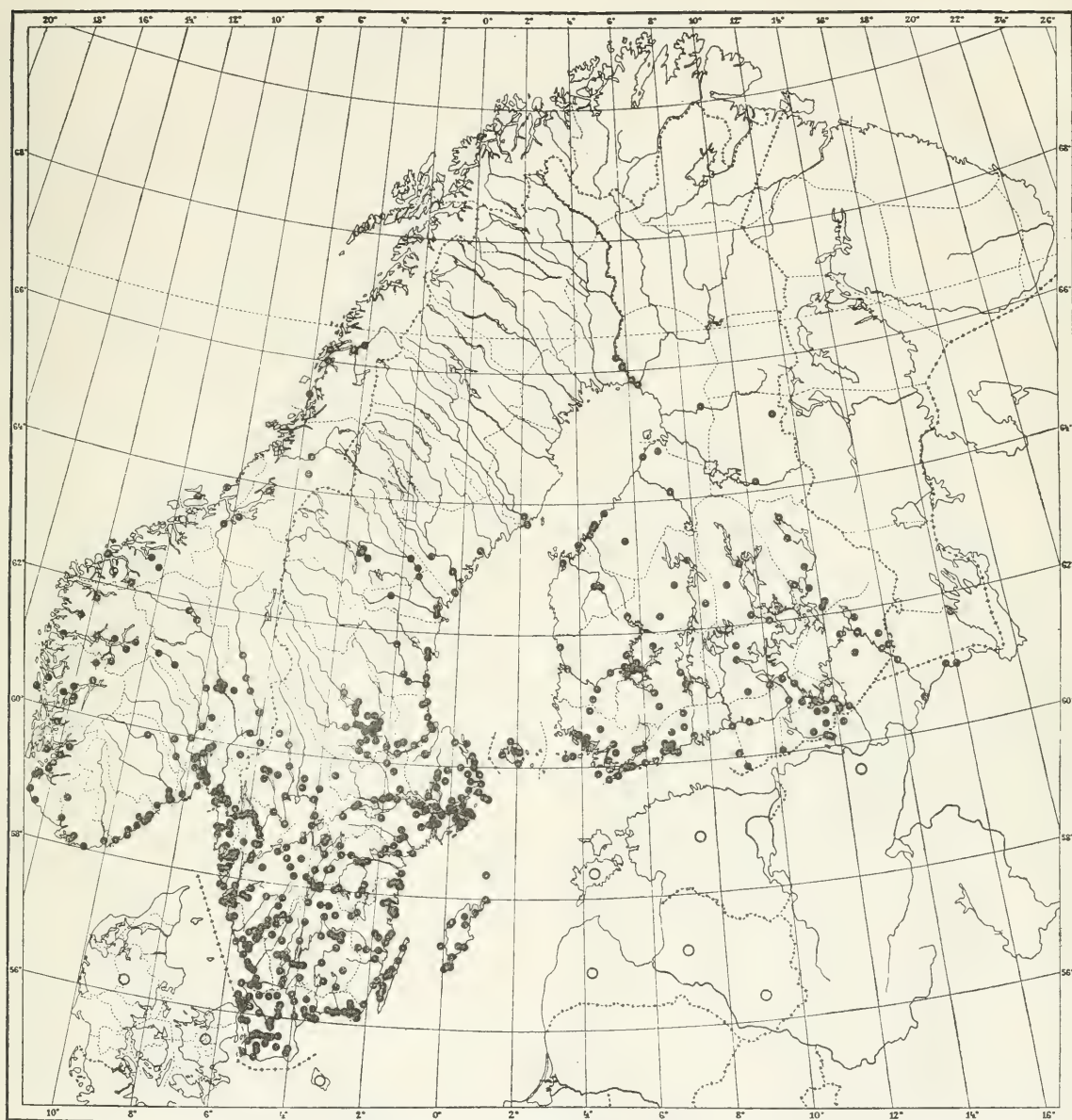
307. *Pterostichus fastidiosus* Mannh.308. *Pterostichus gracilis* Dej.(309. *Pterostichus lepidus*, see p. 247.)310. *Pterostichus middendorffi* J. Sahlb.

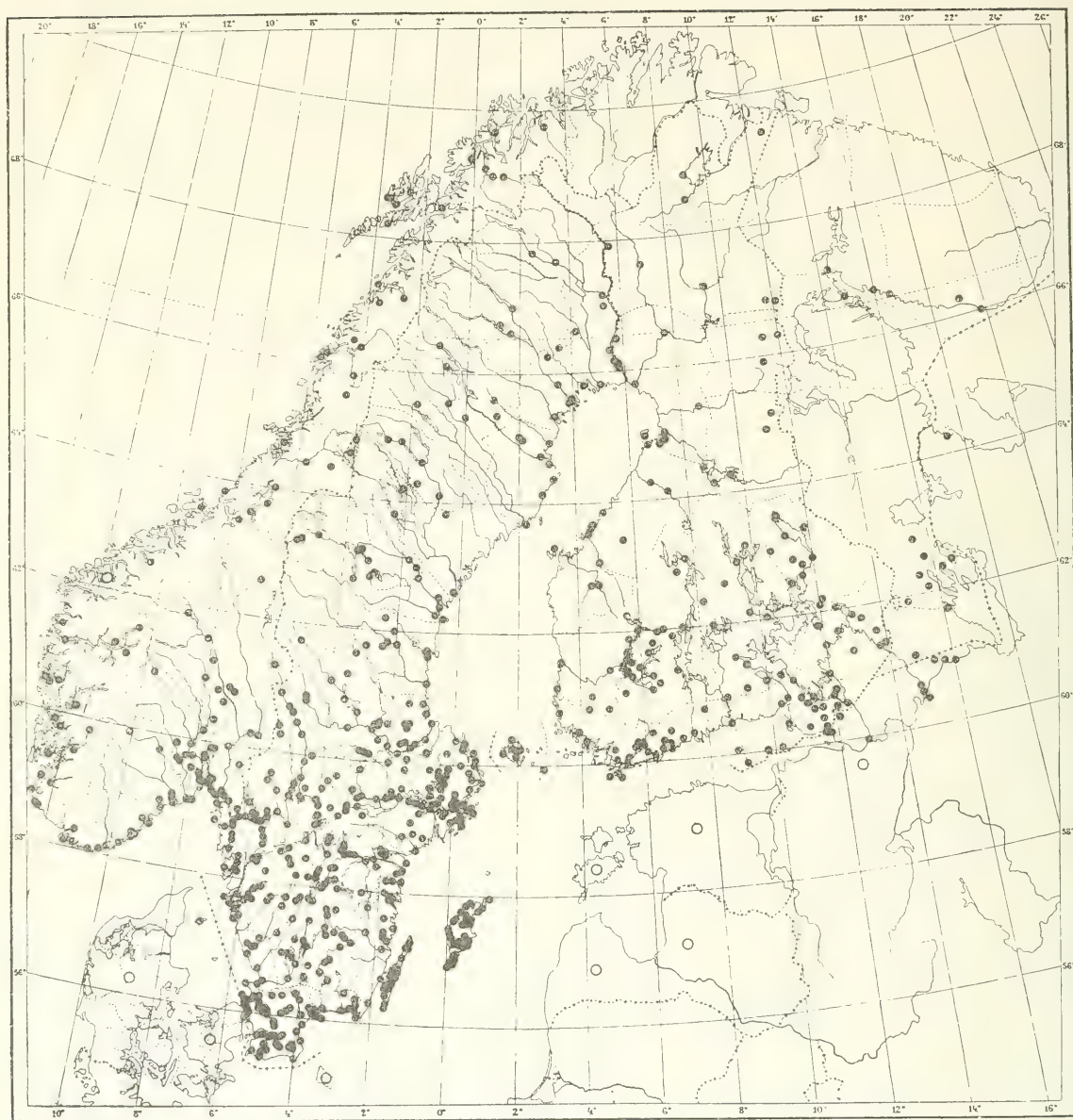


253

309. *Pterostichus (Poecilus) lepidus* Leske.(310. *Pterostichus middendorffi*, see p. 246.)

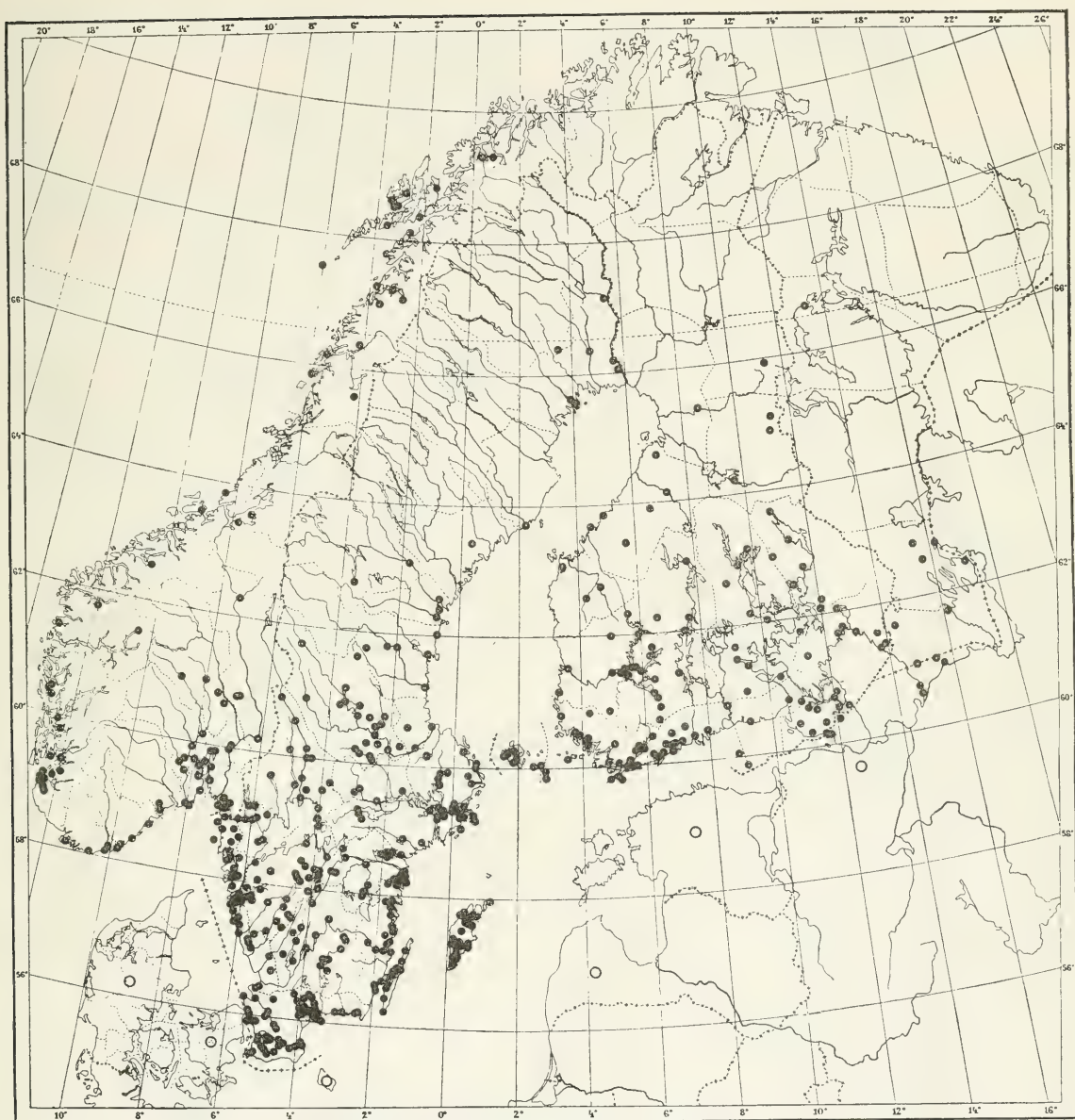


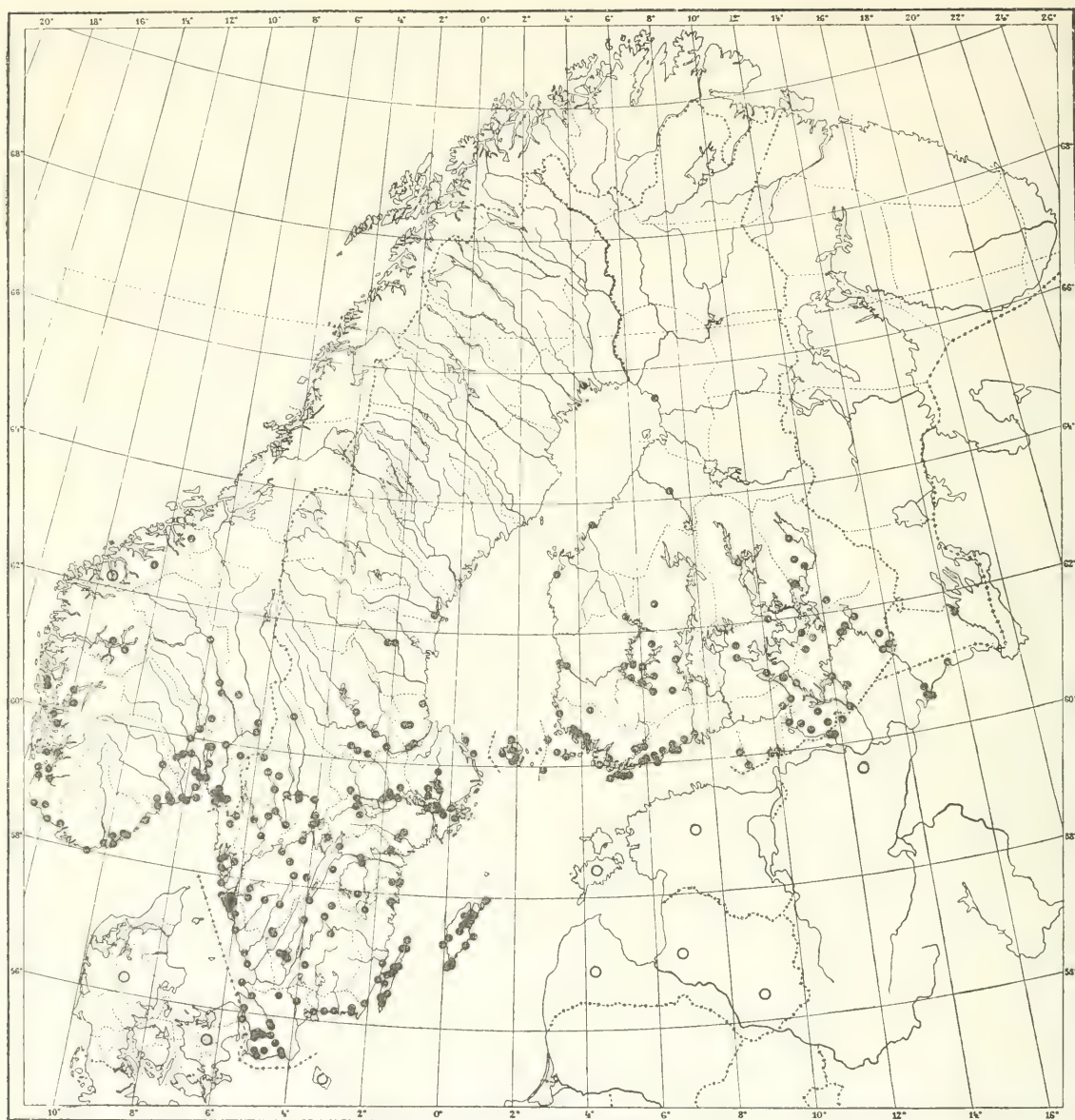






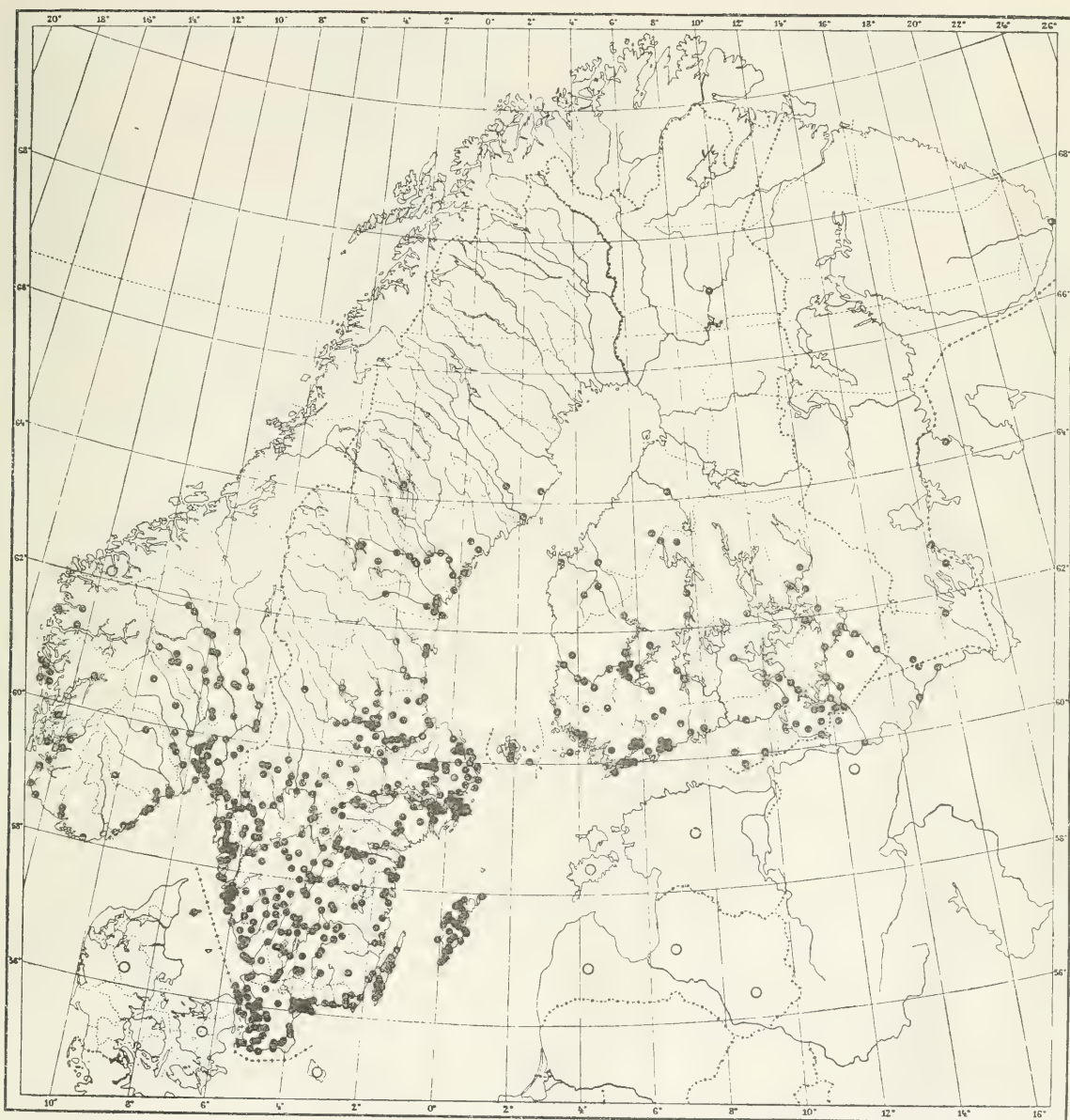




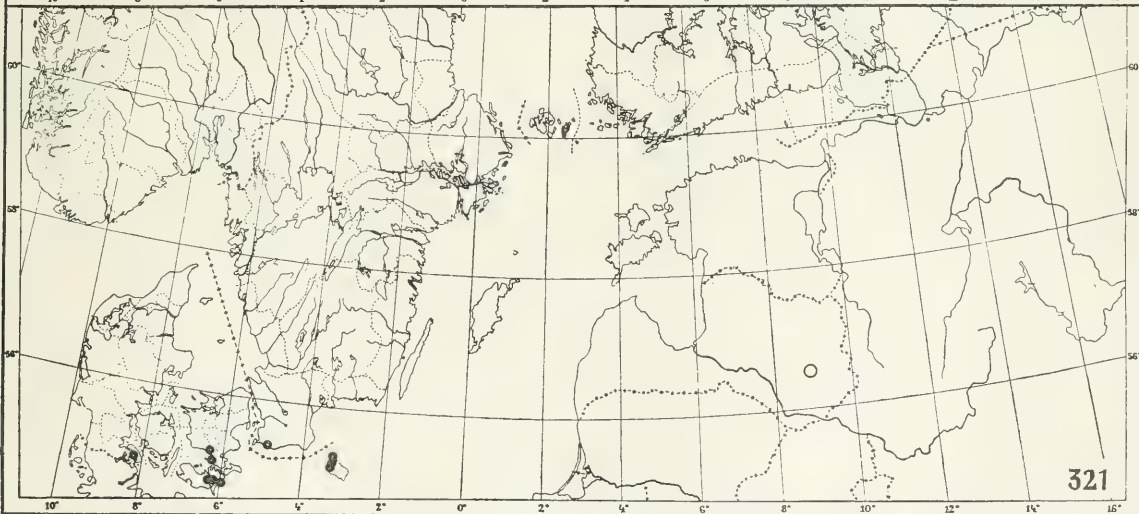
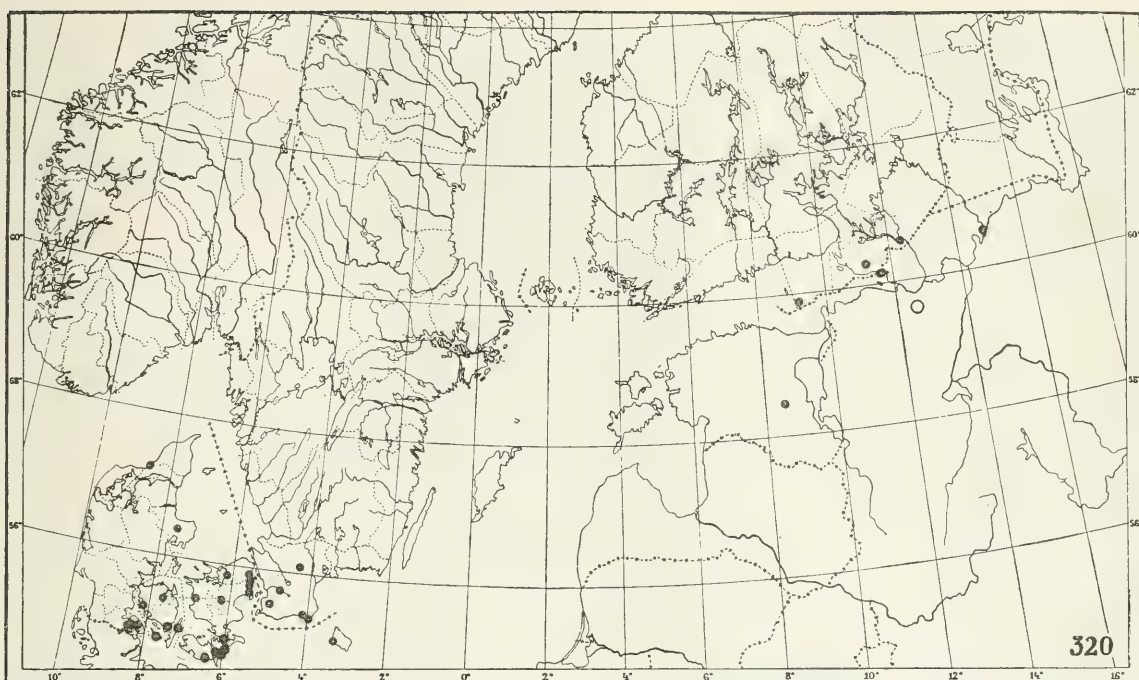


260

317. *Pterostichus vernalis* Panz.

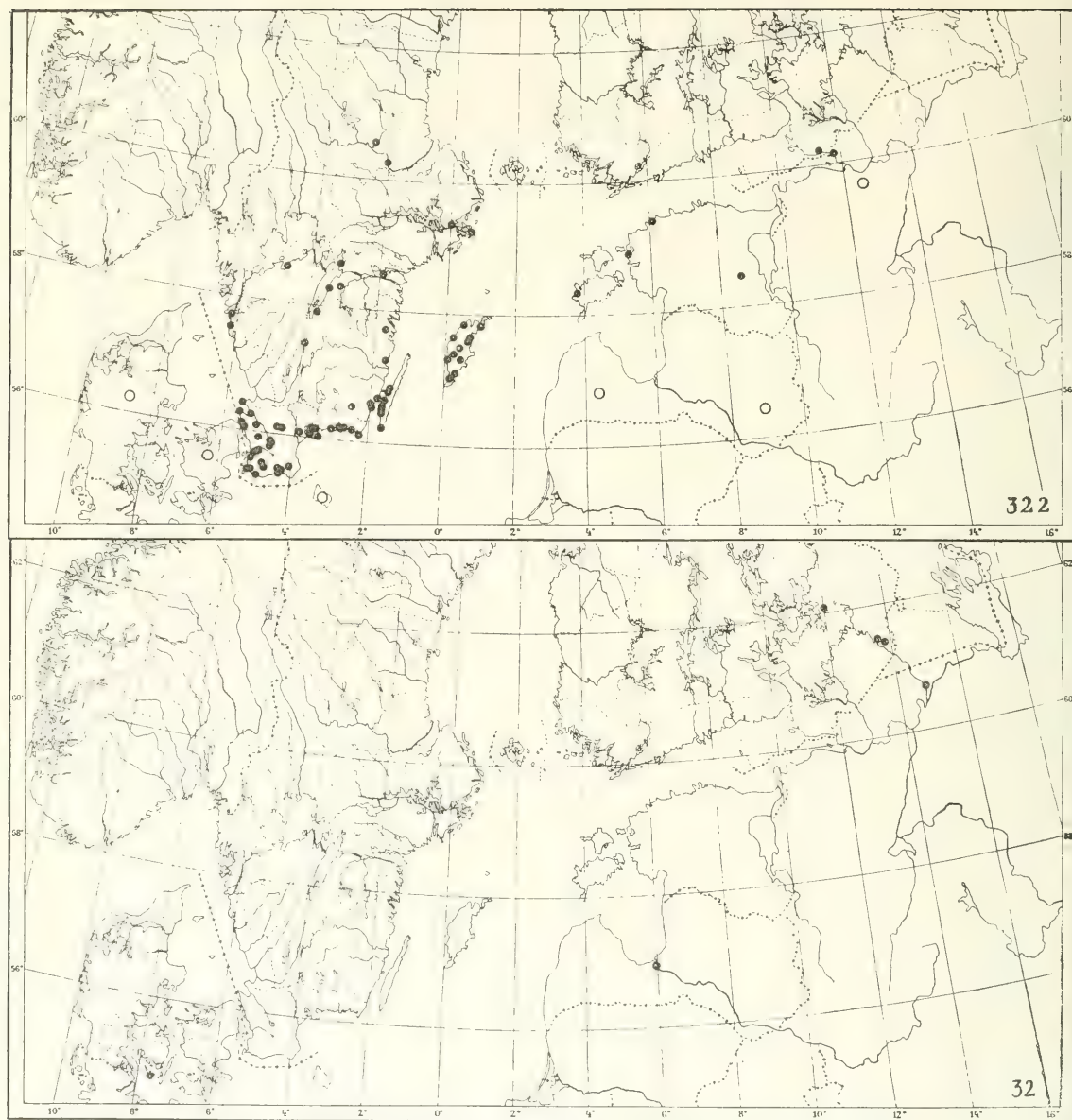






263

320. *Stenolophus mixtux* Hbst.321. *Stenolophus teutonius* Schrank.



264

322. *Stomis pumicatus* Panz.
 (323. *Synuchus nivalis*, see p. 259.)
 324. *Tachys bistratus* Dft.



265

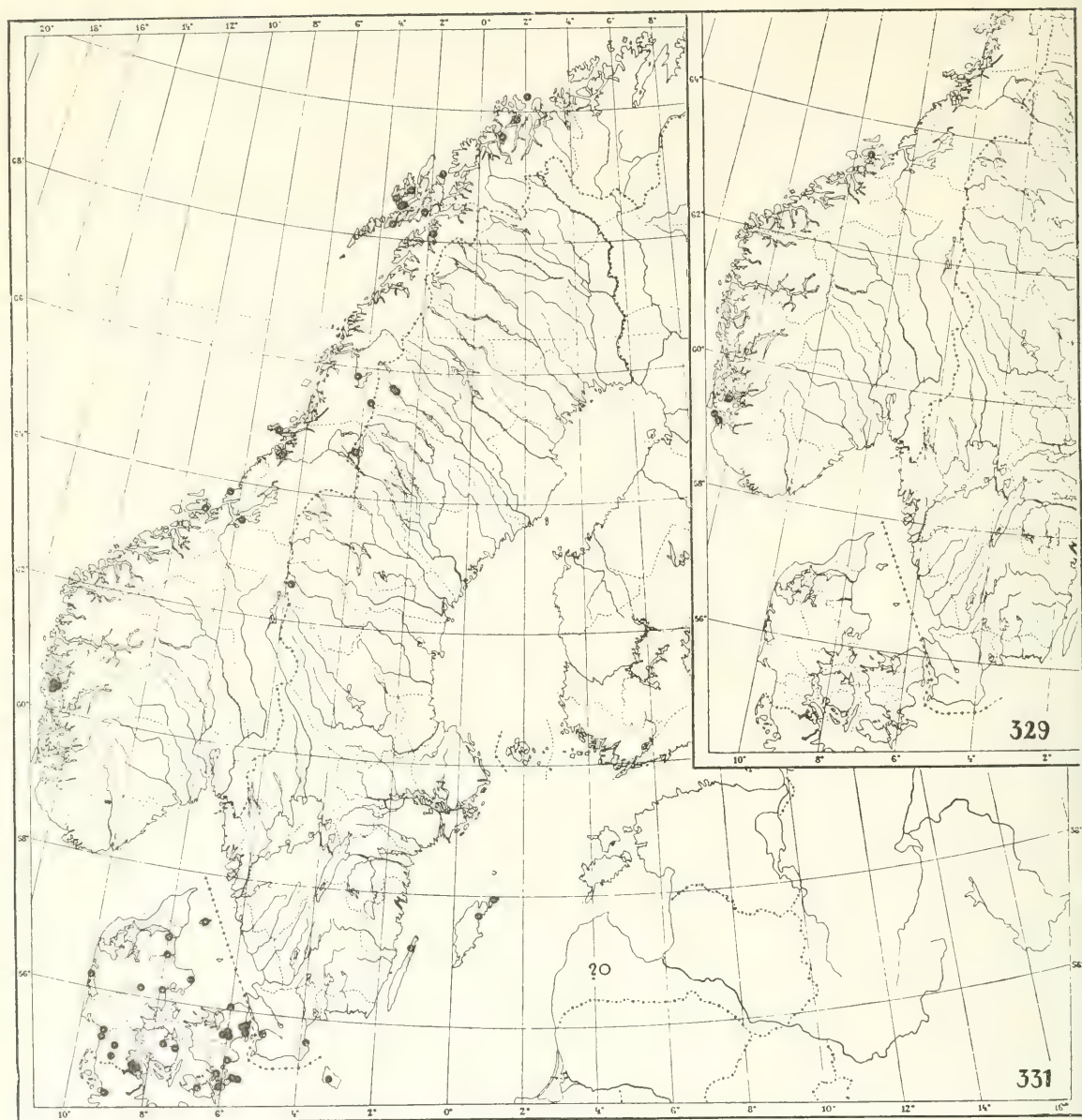
323. *Synuchus nivalis* Panz.
 (324. *Tachys bistratus*, see p. 258.)











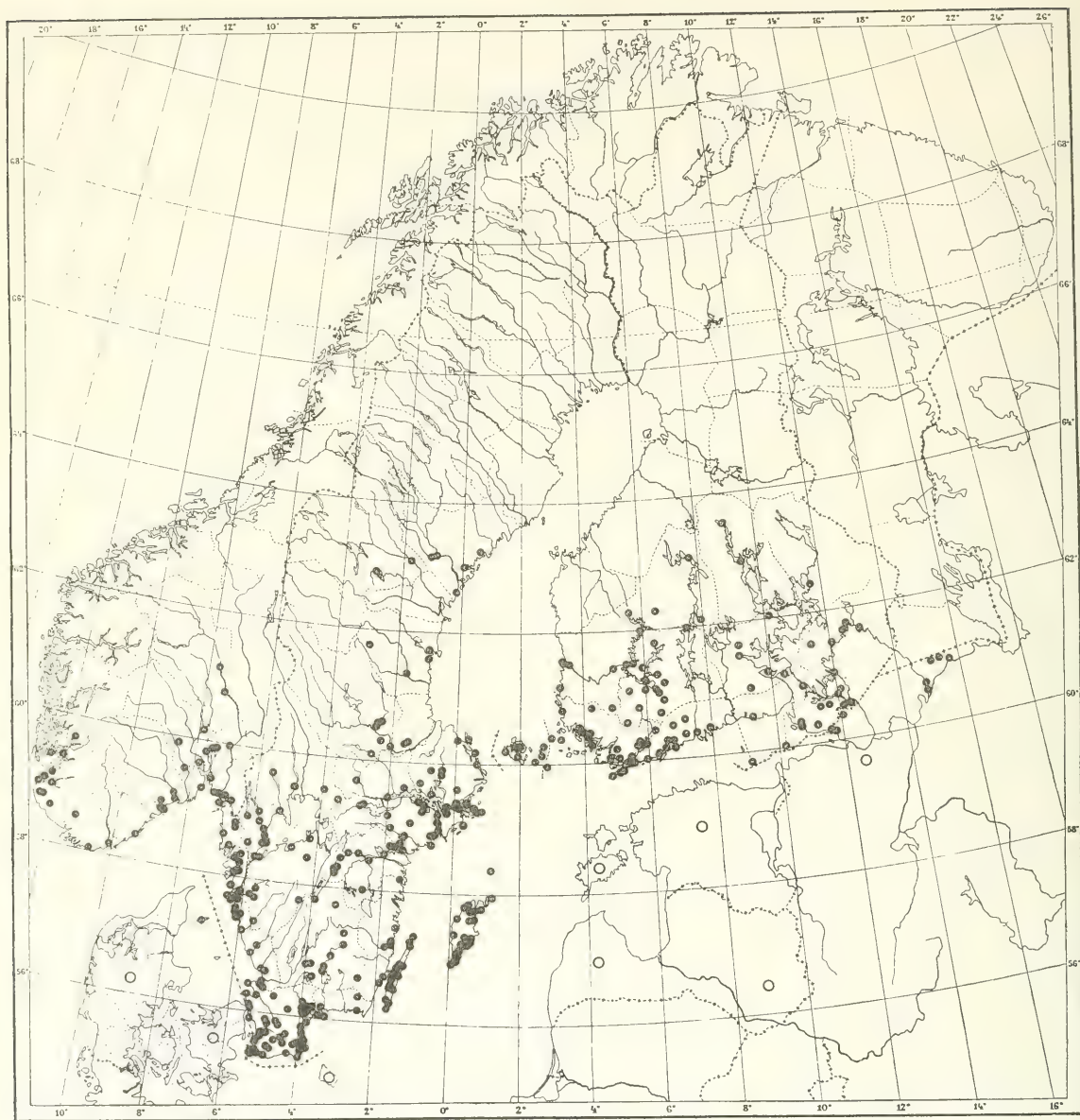
270

329. *Trechus fulvus* Dej.(330. *Trechus micros*, see p. 265.)331. *Trechus obtusus* Er.



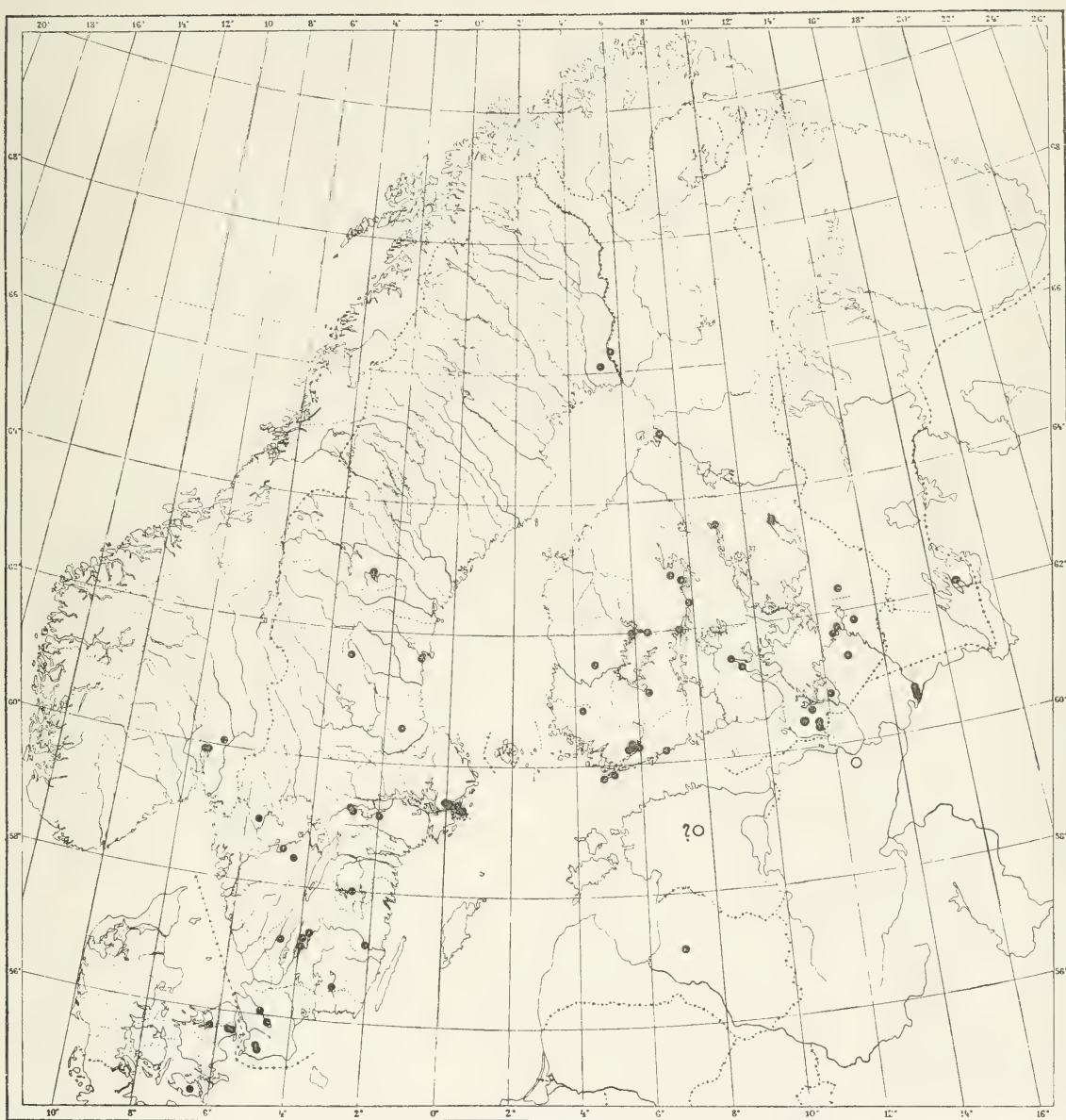
271

330. *Trechus micros* Hbst.(331. *Trechus obtusus*, see p. 264.)

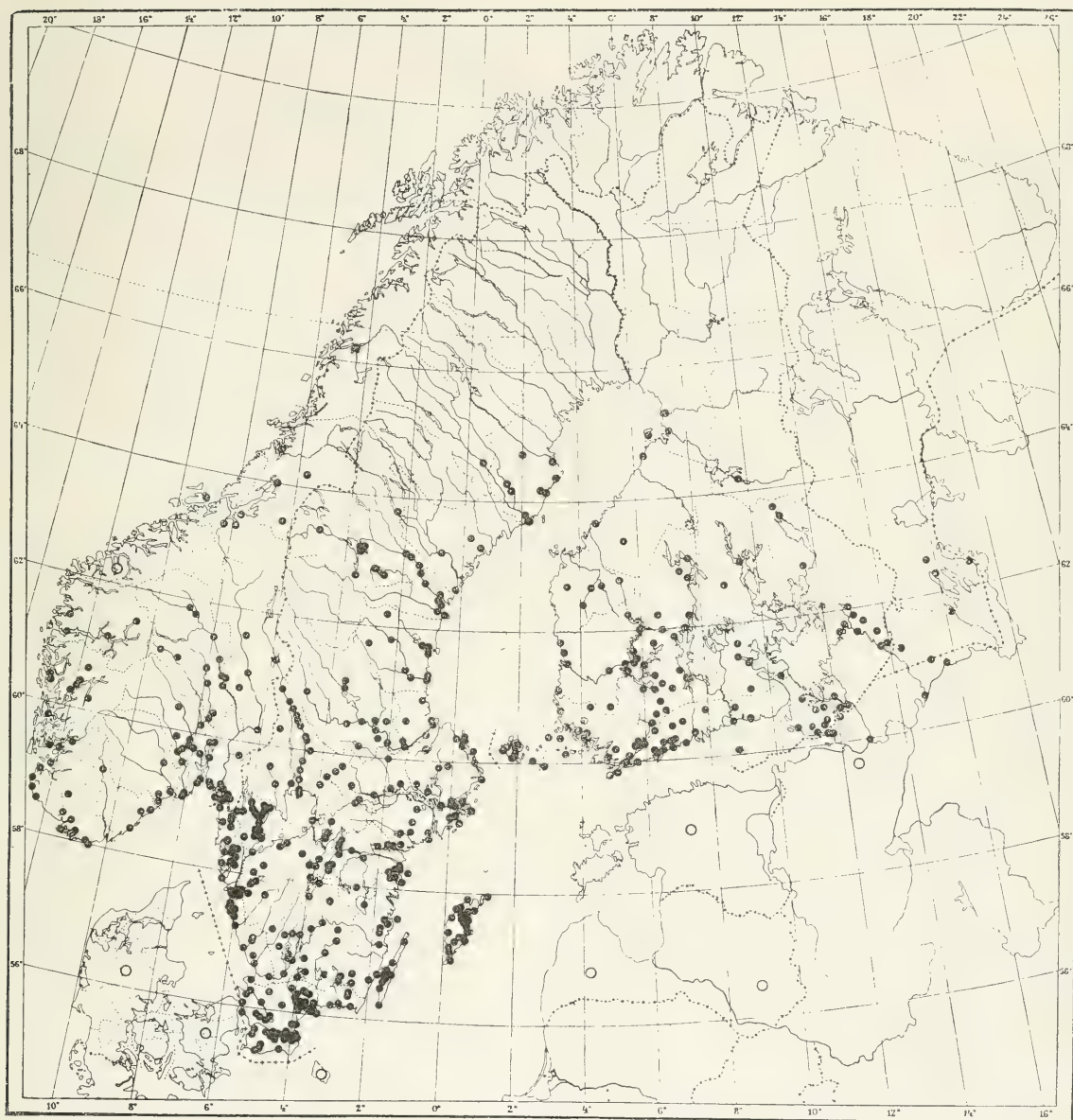


272

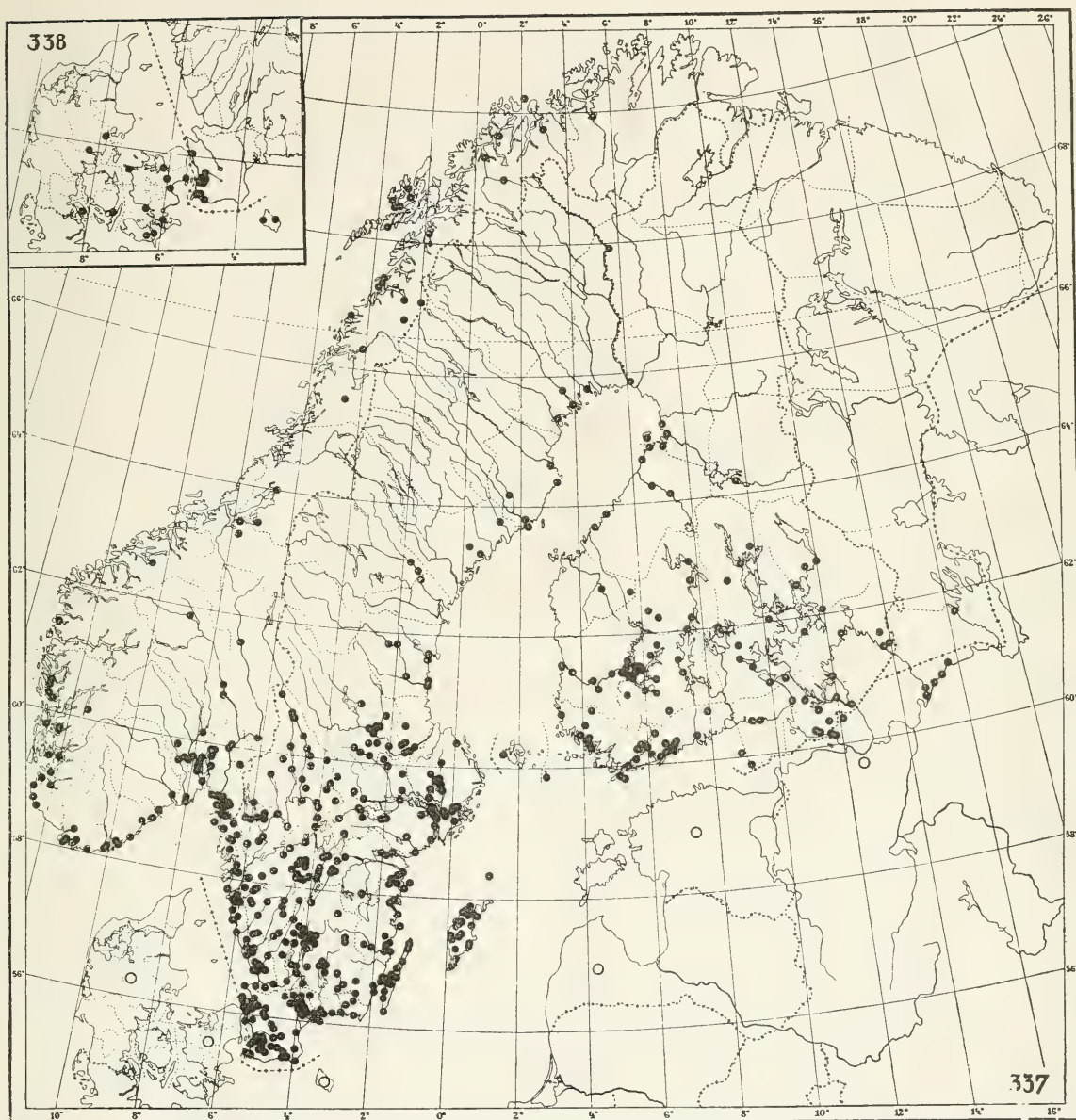
332. *Trechus quadristriatus* Schrk.











277

337. *Trichocellus placidus* Gyll.338. *Zabrus tenebrioides* Gze. (also in Latvia).

